IOWA DEPARTMENT OF NATURAL RESOURCES

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AIR QUALITY BUREAU

2024 IOWA POINT SOURCE EMISSIONS SUMMARY

Prepared by:
Nick Page
Emissions Inventory Unit

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Table of Contents

I. Summary

A. Purpose

The Iowa Department of Natural Resources (DNR) manages criteria[1] and hazardous air pollution information that is used to track progress towards meeting National Ambient Air Quality standards; perform predictive modeling analyses; develop control and maintenance strategies; identify emission sources and general emission levels; determine compliance with emissions regulations; and meet Environmental Protection Agency (EPA) requirements.

This report is a summary of point source emissions data collected from the largest emitting facilities under the federal Title V operating permit program and does not include mobile, biogenic, or nonpoint sources in Iowa. A definition of each source category of emissions is included below:

Point Sources - Discrete stationary source of emissions, such as smoke stacks from industrial facilities.
Mobile Sources - Both on-road sources, such as cars and trucks, and non-road sources, such as agricultural equipment, construction equipment, trains, etc.
Biogenic Sources - All non-anthropogenic sources, such as trees and vegetation, oil and gas seeps, and microbial activity.
Nonpoint Sources - Sources that are not classified as point, mobile, or biogenic, such as residential fuel use and commercial cooking.

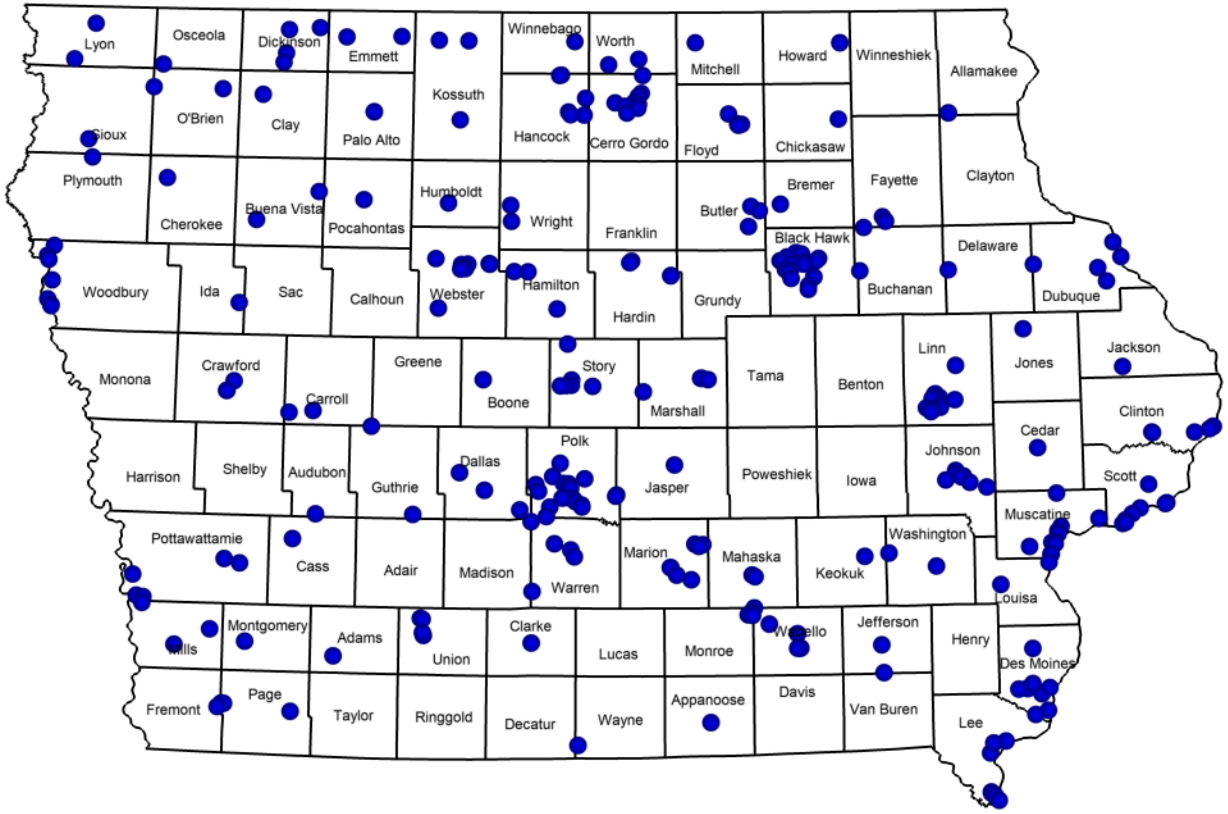
Title V facilities are required to submit data to the DNR related to actual pollution emitted during the previous calendar year. As of 2024, there were 283 facilities subject to the Title V operating permit program located throughout the state as shown in Figure 1 below.

The DNR ensures this valuable data is as accurate as possible by conducting quality assurance checks. The State and Local Emissions Inventory System (SLEIS) was placed into production in 2015, making it simpler and faster for point sources to submit emissions information. DNR then submits the data to EPA's National Emissions Inventory (NEI).

The EPA and DNR use the emissions data for purposes listed above to conduct analyses at the national and state levels. Additionally, this data is used to respond to frequent public information requests for facility and stack level data. Facility level emissions data is included in Appendix A of this report.

[1] Particulate Matter less than 2.5 microns in diameter, Particulate Matter less than 10 microns in diameter, Sulfur Dioxide, Nitrogen Oxides, Volatile Organic Compounds, Carbon Monoxide, Lead, Ozone

Figure 1 – Iowa Map with Title V Facilities Reporting 2024 Emissions



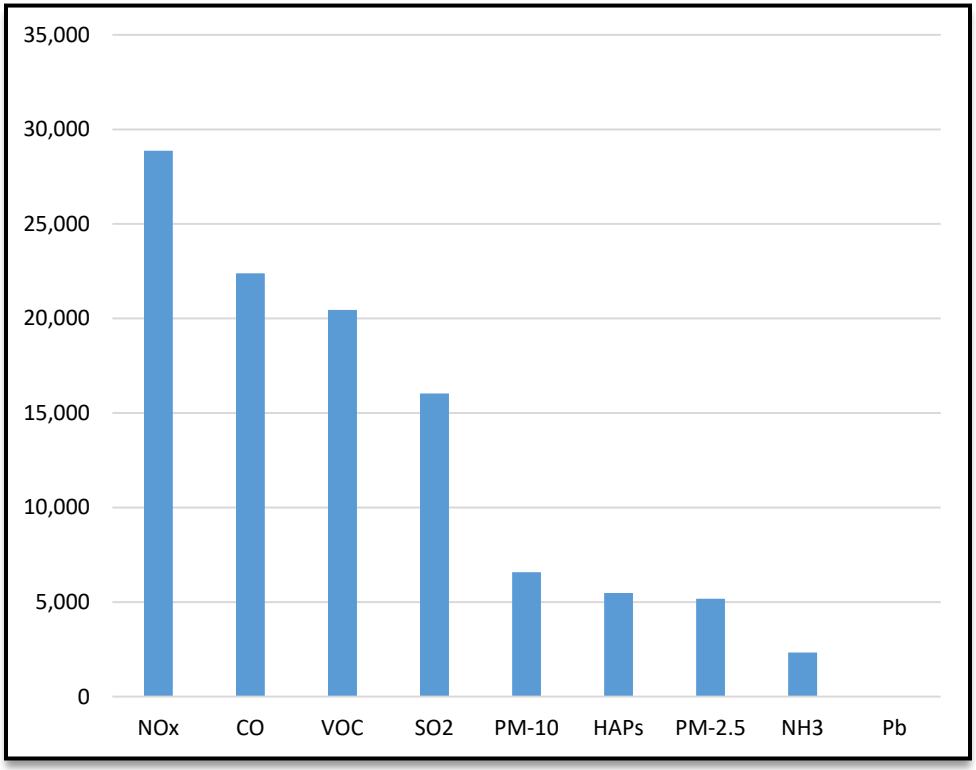
B. Overall Trends

Overall, Title V point source emissions in Iowa decreased from 2023 to 2024 as shown below in Table 1. Together, SO_2 and NO_x made up 42% of the total emissions as shown in Chart 1. However, large decreases in emissions of SO_2 and NO_x accounted for 85.85% of the total decrease in tons of emissions. These decreases are primarily from the Electric Generation business type, and are discussed in more detail later in this report.

Table 1 – 2023 vs 2024 Title V Point Source Emissions

Pollutant	2023 (tons)	2024 (tons)	Difference (tons)	Difference (%)
$PM_{2.5}$	5,258	5,179	-79	-1.50%
PM_{10}	6,779	6,581	-198	-2.92%
SO_2	24,263	16,029	-8,234	-33.94%
NO_x	30,400	28,875	-1,525	-5.02%
VOC	20,832	20,447	-385	-1.85%
CO	22,807	22,387	-420	-1.84%
Pb	0.84	0.65	-0.19	-22.62%
NH_3	2,810	2,334	-476	-16.94%
HAPs	5,534	5,484	-50	-0.90%
Total	**118,684**	**107,317**	**-11,367**	**-9.58%**

Chart 1 – 2024 Title V Point Source Emissions (tons) by Pollutant[2]

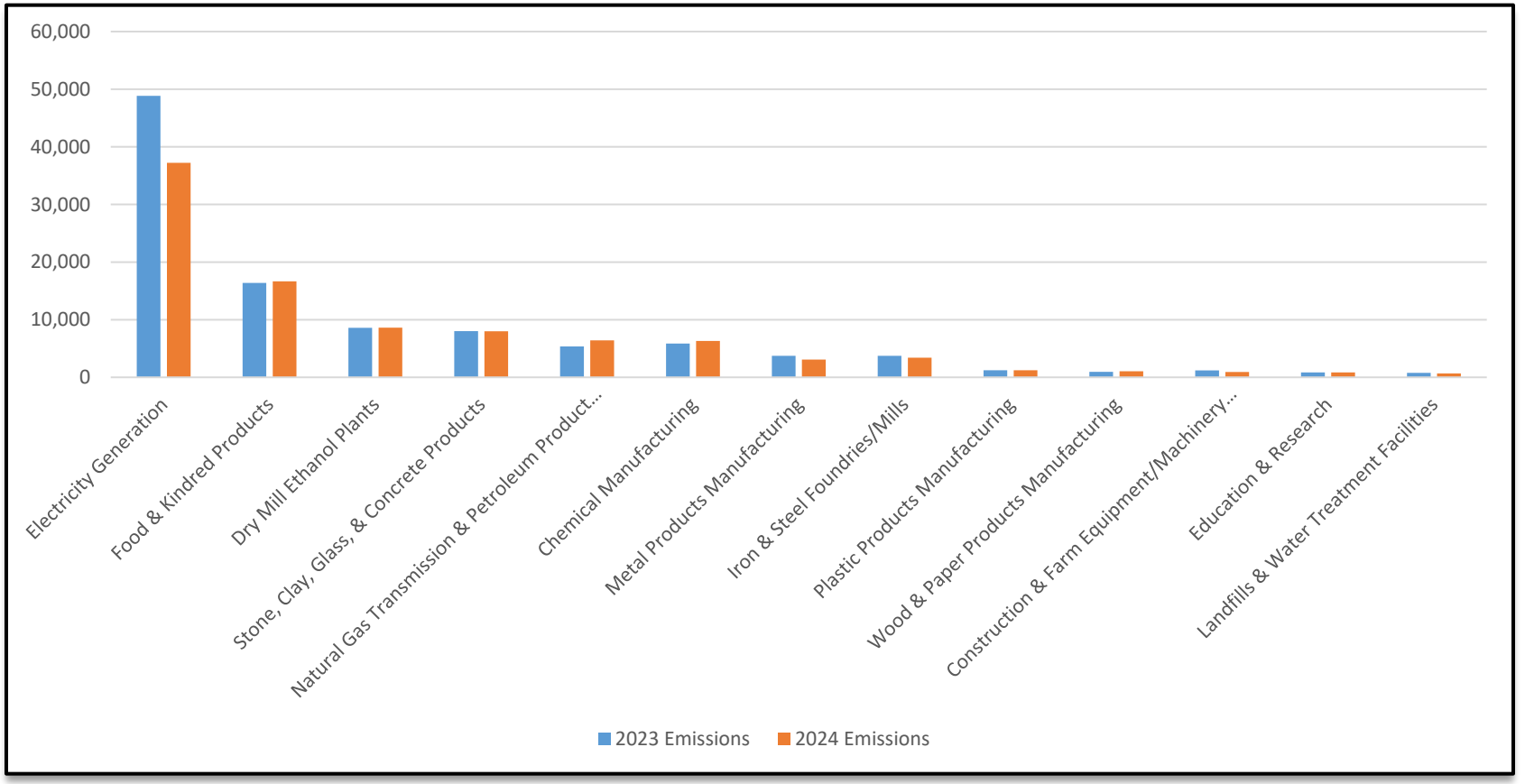


Emissions by Business Type

This report uses nineteen business types to classify sources of air pollution. The nineteen business types used in this summary as well as the types of facilities that are included in each business type are listed in Appendix B. The contribution of each business type to the overall emissions in Iowa is shown in Chart 2 below. Six of the categories – Rubber Products Manufacturing; Miscellaneous; Motor Vehicles/Parts Manufacturing and Repair Shops; Fabricated Metal and Structural Metal Products Manufacturing; Paint, Ink, and Adhesive Manufacturing and Application; and Public Safety, Health, and Security - each had annual emissions of 500 tons or less, so they were not included in the chart for ease of reading. Emissions from the Electricity Generation and Food & Kindred Products business descriptions account for 55.74% of the total emissions.

[2] The total emissions values includes both PM_{10} and $PM_{2.5}$. $PM_{2.5}$ is a subset of PM_{10}. Some HAPs may also be counted as VOCs, $PM_{2.5}$, and/or PM_{10}.

Chart 2 – 2023 vs. 2024 Title V Point Source Emissions by Business Type (tons)



The largest contributor of point source emissions comes from the Electricity Generation business type as shown above in Chart 2 even though only forty of the 283 facilities included in the 2024 NEI are classified as electrical generating facilities. This business type also reported the greatest change in overall emissions from 2023 to 2024 as shown in Table 2. These electrical generating facilities experienced a total emission decrease of 11,780 tons, while the total emissions decrease from all 283 facilities was 11,367 tons as shown in Table 1 on page 2. The annual change in emissions, by pollutant, from the Electricity Generation business type from 2023 to 2024 were as follows.

Table 2 - 2023 vs 2024 Emissions from Electrical Generation

Pollutant	2023 (tons)	2024 (tons)	Difference (tons)	Difference (%)
$PM_{2.5}$	1,458	1,324	-134	-9.19%
PM_{10}	1,965	1,739	-226	-11.50%
SO_2	19,567	10,298	-9,269	-47.37%
NO_x	15,290	13,354	-1,936	-12.66%
VOC	194	193	-1	-0.52%
CO	11,731	11,555	-176	-1.50%
Pb	0.40	0.36	-0.04	-10.00%
NH_3	97	72	-25	-25.77%
HAPs	266	253	-13	-4.89%
Total[3]	**50,568**	**38,788**	**-11,780**	**-23.30%**

The decreases are primarily due to the use of dry flue gas desulfurization at coal-fired power plants and reductions in the total amount of coal combusted in 2024. This is further discussed in the *II. Detailed Results* section of this report.

II. Detailed Results

$PM_{2.5}$ & PM_{10}

Emissions of particulate matter with a diameter less than 2.5 microns ($PM_{2.5}$) decreased about 80 tons from 2023 to 2024. The business descriptions with the largest changes were:

- Electricity Generation: decrease of 134 tons
- Dry Mill Ethanol Plants: increase of 44 tons

The same business descriptions contributed the majority of the overall decrease in emissions of particulate matter with a diameter less than 10 microns (PM_{10}). The changes by business description were:

- Electricity Generation: decrease of 226 tons
- Dry Mill Ethanol Plants: increase of 38 tons

The overall decrease in emissions from the Electricity Generation sector was directly related to changes in coal combustion. One facility ceased coal combustion (and coal storage and handling) at the end of 2023. Four other facilities decreased coal combustion between 20% and 40%. Only one facility had a significant increase in coal combustion (15%). This facility experienced an increase of about 60 tons of $PM_{2.5}$ and 110 tons of PM_{10}.

[3] The total emissions value includes both PM_{10} and $PM_{2.5}$, which is a subset of PM_{10}. Some HAPs may also be counted as VOCs, $PM_{2.5}$, and/or PM_{10}.

The Iowa Renewable Fuels Association reported nearly steady ethanol production from 2023 to 2024 at about 4.6 billion gallons. This was consistent with relatively unchanged particulate emissions from the Dry Mill Ethanol Plants business description. There were, however, four facilities that reported between a 10 and 15 ton emissions increase. The increase in emissions from these facilities is attributed to an increase in throughput in the dryers and the use of more recent, and higher, emission factors for dryers and cooling towers.

Chart 3 - 2024 Title V Point Source PM2.5 Emissions by Business Type (tons)

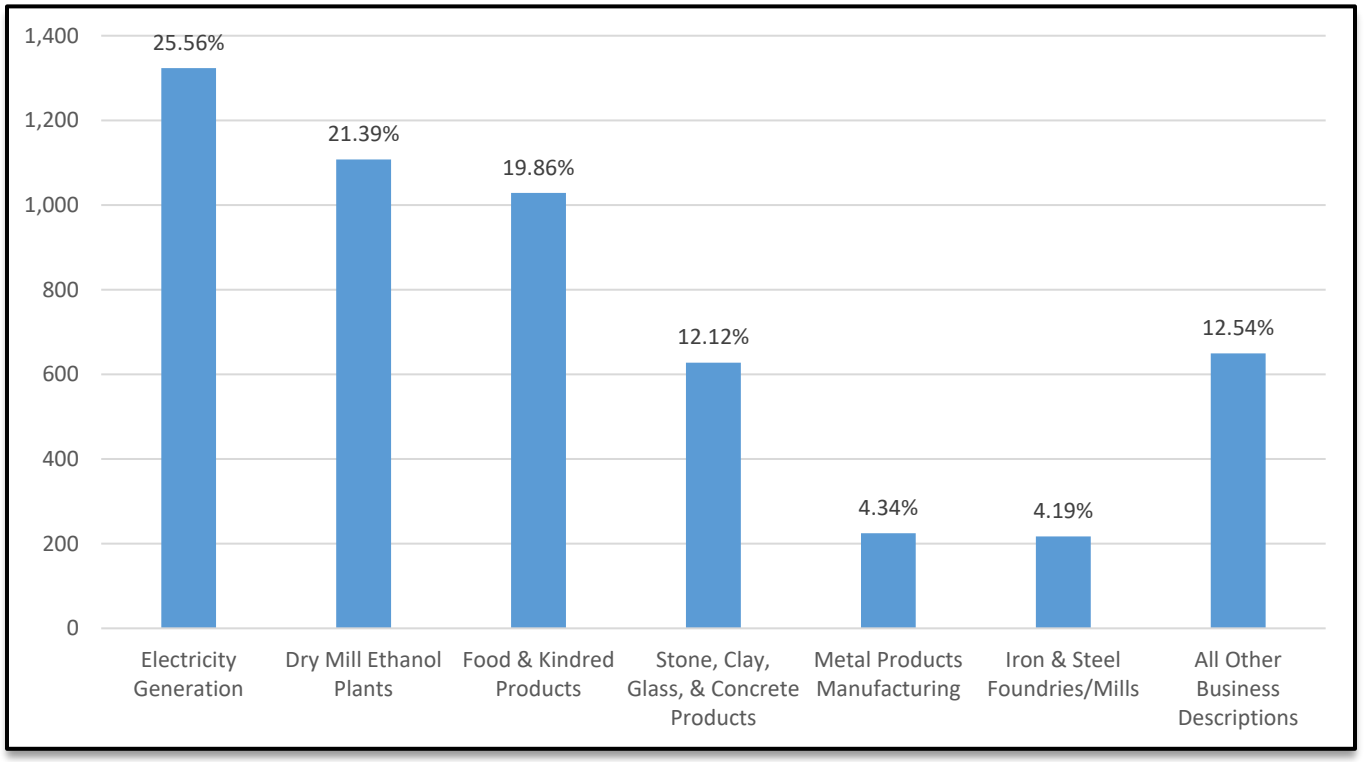
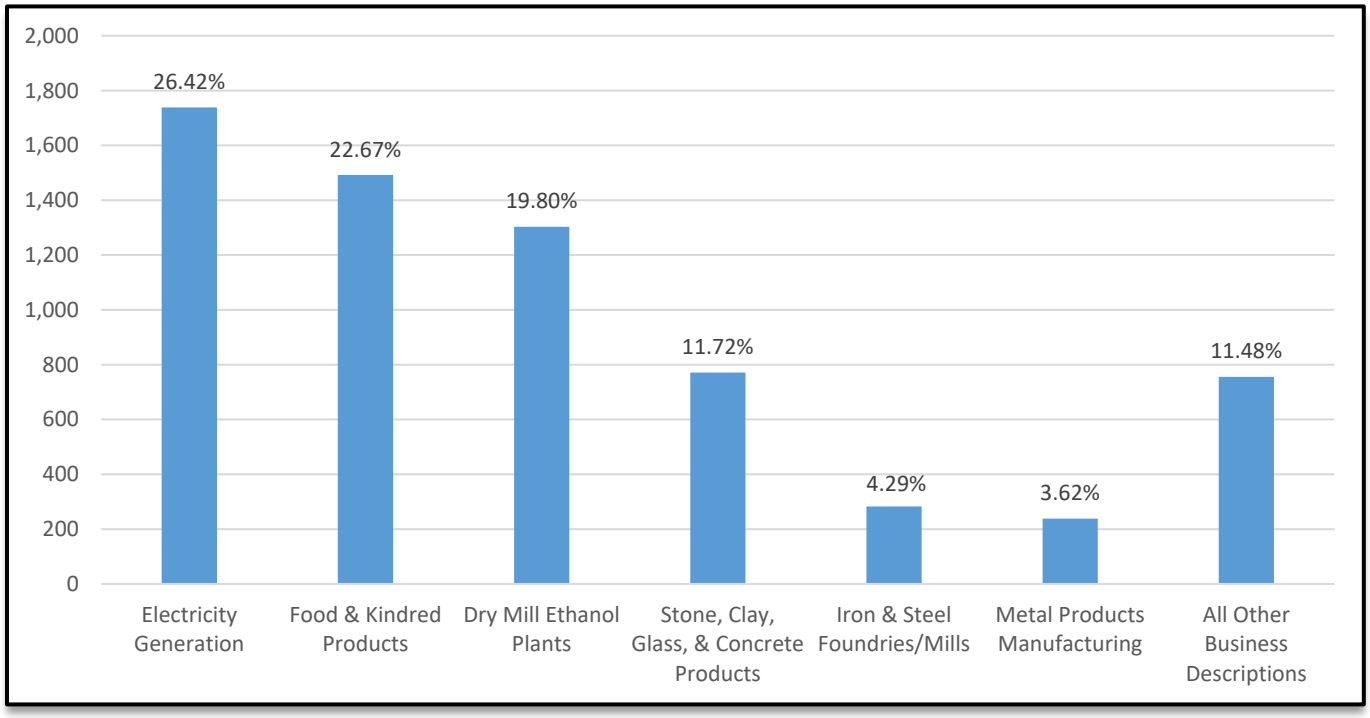


Chart 4 - 2024 Title V Point Source PM_{10} Emissions by Business Type (tons)



SO_2

Statewide Sulfur Dioxide (SO_2) emissions decreased more than 8,200 tons from 2023 to 2024. The Electricity Generation business description experienced the most notable change in emissions with a decrease of 9,268 tons.

The SO_2 emissions decrease in the Electricity Generation business description was largely accounted for by five facilities. Three of these facilities combined to report a decrease of more than 8,800 tons of SO_2 emissions. The change in SO_2 emissions was primarily related to the use of dry flue gas desulfurization at two facilities but an overall decrease in coal throughput was a secondary reason for the emissions decrease. Collectively, the five facilities burned about 1.18 million fewer tons of coal in 2024 compared to 2023.

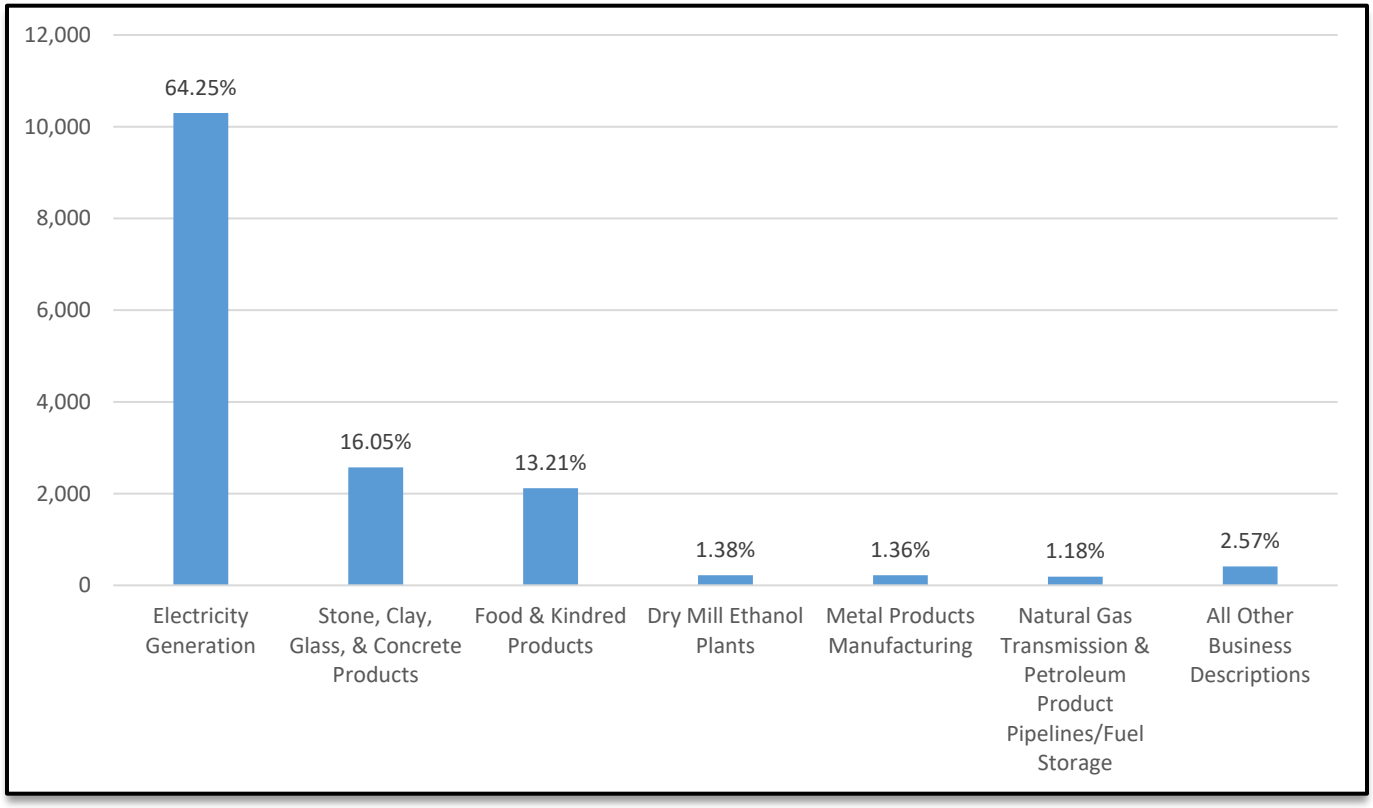
- Four facilities burned less coal in 2024: 1,656,000 fewer tons of coal; 6,326 ton decrease in SO_2 emissions (one of these facilities used dry flue gas desulfurization)

- One facility burned more coal in 2024: 475,000 more tons of coal; 3,051 ton decrease in SO_2 emissions (the facility used dry flue gas desulfurization)

Two of the remaining eighteen business descriptions combined for a moderate increase in emissions. The two business descriptions were:

- Stone, Clay, Glass, & Concrete Products (791 ton increase)
- Food & Kindred Products (330 ton increase)
- The increase in SO_2 emissions from the Stone, Clay, Glass, & Concrete Products business description was driven by a cement manufacturer that had a higher SO_3 content in the raw mix of their kiln operation in 2024 compared to 2023. One facility in the Food & Kindred Products business description emitted 540 more tons of SO_2 in 2024 compared to 2023. This was because they increased the amount of bituminous coal they burned from the previous year. Bituminous coal has a higher sulfur content that subbituminous coal.

Chart 5 - 2024 Title V Point Source SO_2 Emissions by Business Type (tons)



NO_x

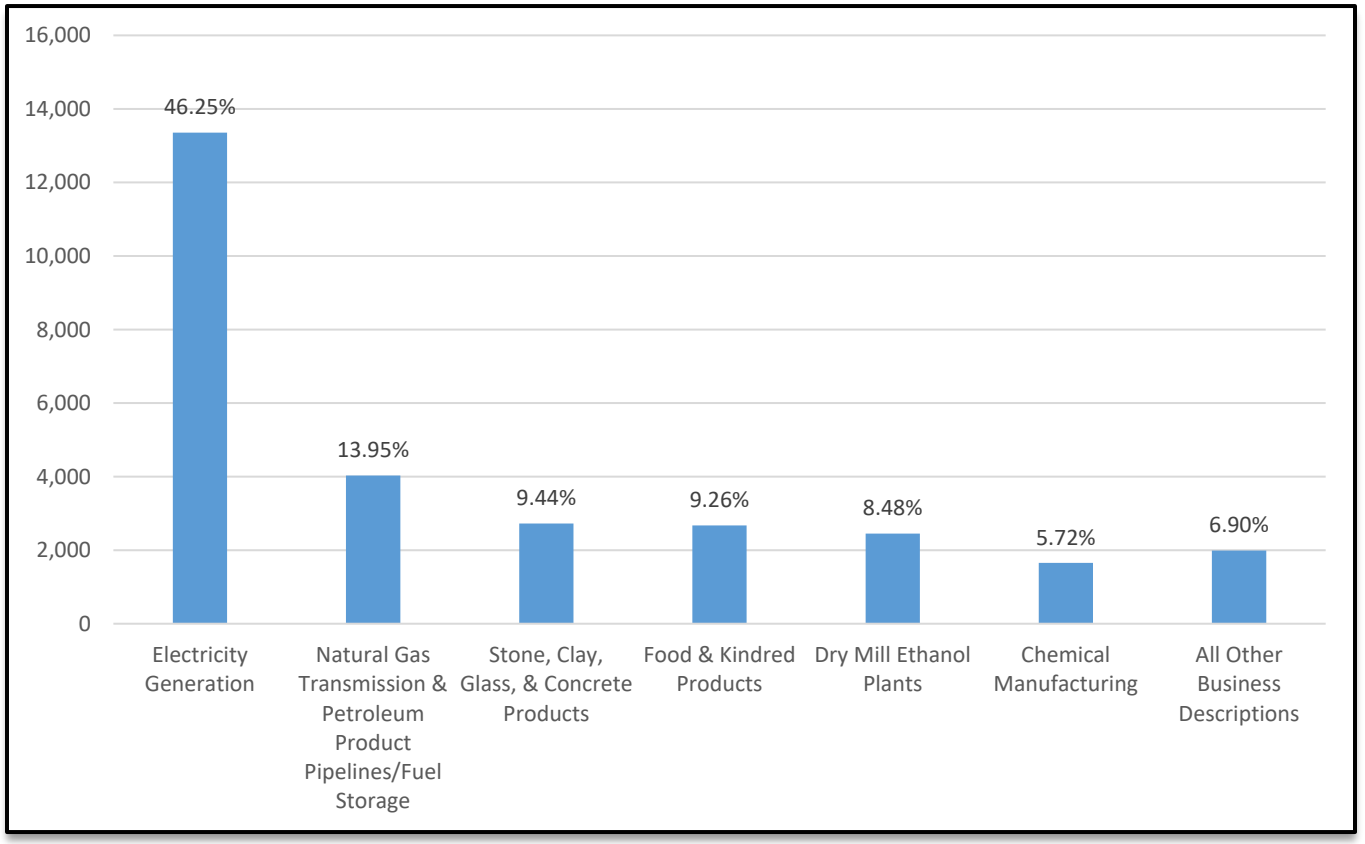
Point source Nitrogen Oxides (NO_x) emissions decreased more than 1,500 tons from 2023 to 2024. This was mainly accounted for by a large decrease in the Electricity Generation business description. Six facilities in the Electricity Generation business description had a combined decrease of almost 1,900 tons from 2023 to 2024. Five of the six facilities' emissions decreased because of a decrease in coal throughput. One of the six facilities in the net change experienced an

increase in NO_x emissions because their coal throughput increased by 15%. One of the six facilities experienced a decrease in emissions despite coal throughput remaining the same. This was because the facility noticed one of their boiler's 12-month rolling NO_x lb/MMBtu average was close to exceeding their lb/MMBtu limit. The boiler's NO_x emission rate is related to operating load, and an extended period of low load operation caused the 12-month average to increase in 2023. In 2024 the facility limited low load operation to allow the average emission rate to drop back to normal ranges. Overall, coal usage from all facilities combined in the Electricity Generation business description decreased by about 2,215,000 tons (21.0%) from 2023 to 2024, leading to the decrease in NO_x emissions.

The Natural Gas Transmission & Petroleum Product Pipelines/Fuel Storage business description experienced more than a 600 ton increase in state-wide NO_x emissions. This increase was mainly accounted for at one facility in this business description. Natural gas usage in the internal combustion engines at the facility increased by about 290% from 2023 to 2024 and this was the reason for the emissions increase.

All remaining business descriptions combined for a net decrease of 200 tons of NO_x emissions in 2024 compared to 2023.

Chart 6 - 2024 Title V Point Source NO_x Emissions by Business Type (tons)



VOC

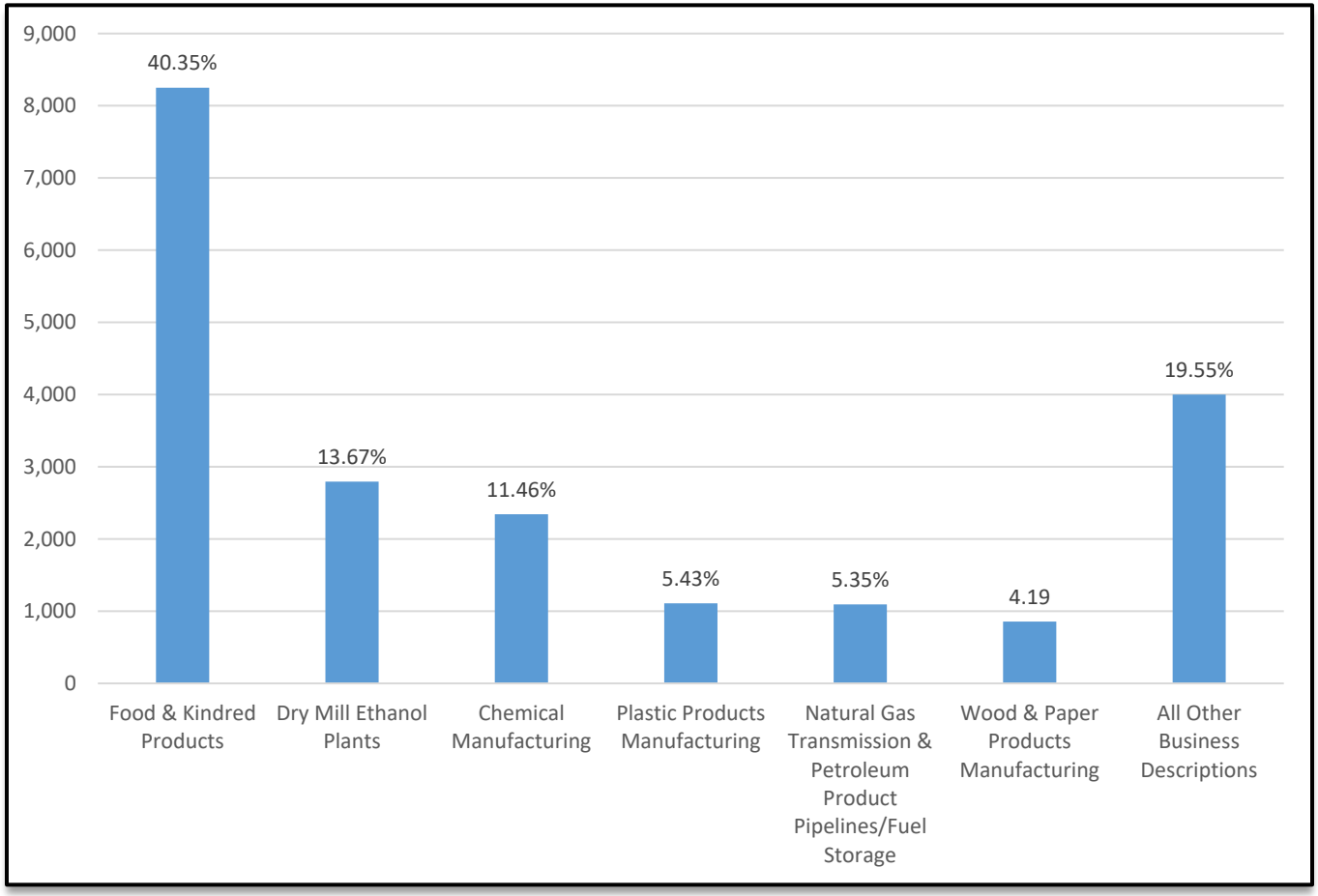
Overall, statewide Volatile Organic Compound (VOC) emissions decreased about 385 tons from 2023 to 2024. This was summarized by several moderate decreases and one moderate increase in emissions from the following business descriptions:

- Construction & Farm Equipment/Machinery Manufacturing (217 ton decrease)
- Rubber Products Manufacturing (127 ton decrease)
- Iron & Steel Foundries/Mills (79 ton decrease)
- Paint, Ink, & Adhesive Manufacturing & Application (75 ton decrease)
- Natural Gas Transmission & Petroleum Product Pipelines/Fuel Storage (162 increase)

The Construction and Farm Equipment/Machinery Manufacturing business description had the largest emissions change from 2023 to 2024. Facilities in this business description conduct surface coating and several reported decreased paint and solvent usage when comparing 2023 to 2024. The facility with the largest decrease in VOC emissions not only had reduced paint and solvent usage but they also used coatings with lower VOC content. One facility in the Rubber Products Manufacturing business description that manufactures tires had a VOC reduction of 99 tons. This was due to a 30-40% decrease in cement, solvent, and rubber throughput between 2023 and 2024.

One business description that had an overall increase in VOC emissions was Natural Gas Transmission & Petroleum Product Pipelines/Fuel Storage. The bulk refined petroleum products terminals were the main contributors to the increase in VOC emissions from this business description. These terminals reported an increase in throughput of petroleum product truck loadout processes that increased VOC emissions. There were also two natural gas distribution facilities that were not classified as point source facilities in the 2023 NEI report but were classified as a point sources for the 2024 NEI that contributed to the increase in VOC emissions from this business description.

Chart 7 - 2024 Title V Point Source VOC Emissions by Business Type (tons)



CO

Carbon monoxide (CO) emissions decreased more than 420 tons from 2023 to 2024. Only three business descriptions experienced a change of more than 200 tons since the previous year. Those business descriptions were:

- Stone, Clay, Glass, & Concrete Products (477 ton decrease)
- Chemical Manufacturing (429 ton increase)
- Iron & Steel Foundries/Mills (252 ton decrease)

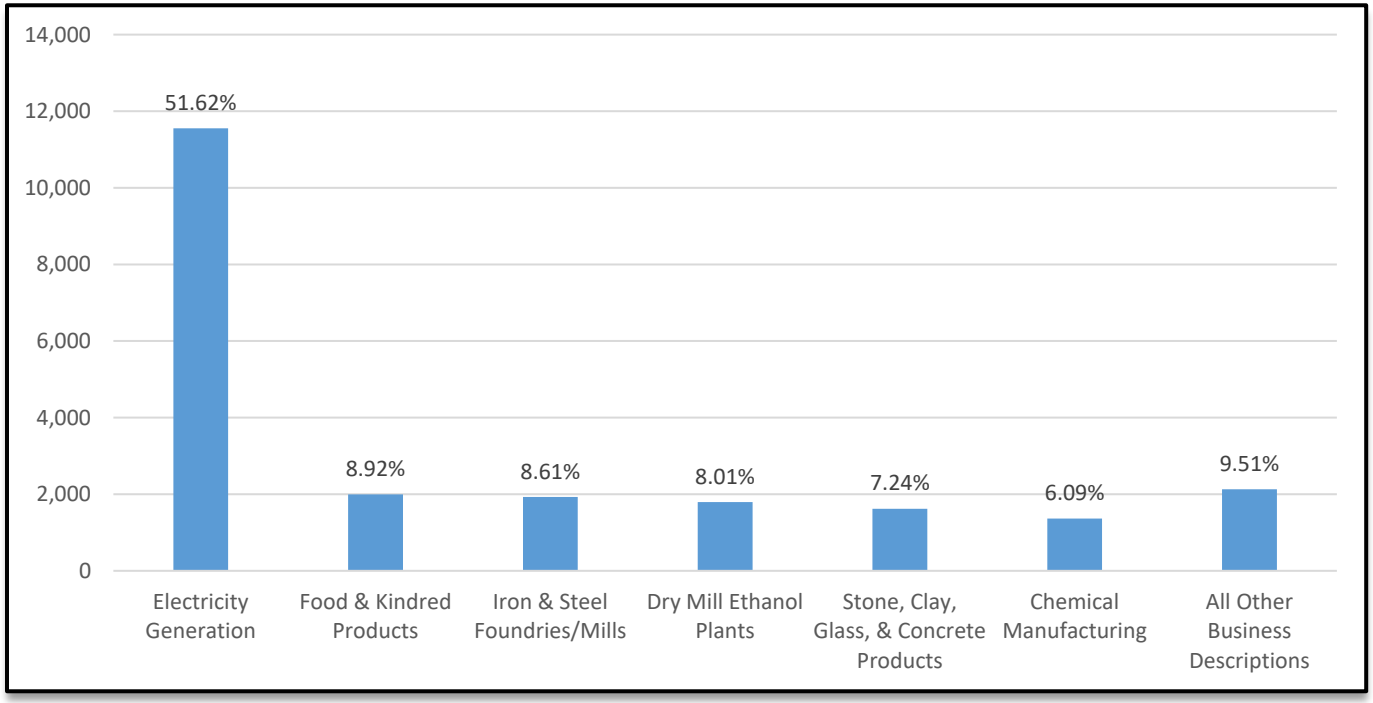
The business description that had the largest change in CO emissions was the Iron & Steel Foundries/Mills. Two facilities combined for a decrease of 675 tons of CO emissions from 2023 to 2024. One facility is classified as an Iron & Steel Mill manufacturer. The facility has a scrap preheat shell with two stacks. Both stacks have historically been stack tested for CO emission rates. In 2023, the facility reported CO emissions using the sum of the two stack test values. In 2024,

the facility only reported CO emissions using the result of one of the stacks. This was the cause of the decrease in emissions. The emissions inventory has since been corrected and EPA's Emissions Inventory System has been updated. The second facility in this business description that contributed to the overall decrease in CO emissions is a grey iron foundry that manufactures parts for the agricultural equipment industry. This facility's production decreased by about one-third from 2023 to 2024 leading to the decrease in CO emissions.

One cement manufacturing facility in the Stone, Clay, Glass, & Concrete Products business description reported a 360 ton decrease in emissions from their kiln. The cause of the CO emissions decrease from the facility was due to a reduction in false air and lower production levels. The facility indicated the raw mix contribution could not be determined because they do not have organic carbon data for the raw mix as part of their routine monitoring metrics. The facility indicated that it is not standard practice for a cement manufacturer to analyze organic carbon in the raw mix and since CO emissions were within the applicable emissions limits in 2023 and 2024, it did not warrant extra testing for the raw mix carbon content.

The Chemical Manufacturing business description was the only category that contributed a comparatively large increase of CO emissions from 2023 to 2024 (429 tons). This increase was mainly accounted for at one nitrogenous fertilizer manufacturing facility. This facility's CO emissions increased from 2023 to 2024 primarily due to a planned maintenance event in the fall of 2024 during which startup and shutdown emissions occurred. In 2023, there were no startup or shutdown events. However, during the 2024 maintenance event, processes operated for both startup and shutdown, resulting in the year-over-year increase in CO emissions.

Chart 8 - 2024 Title V Point Source CO Emissions by Business Type (tons)



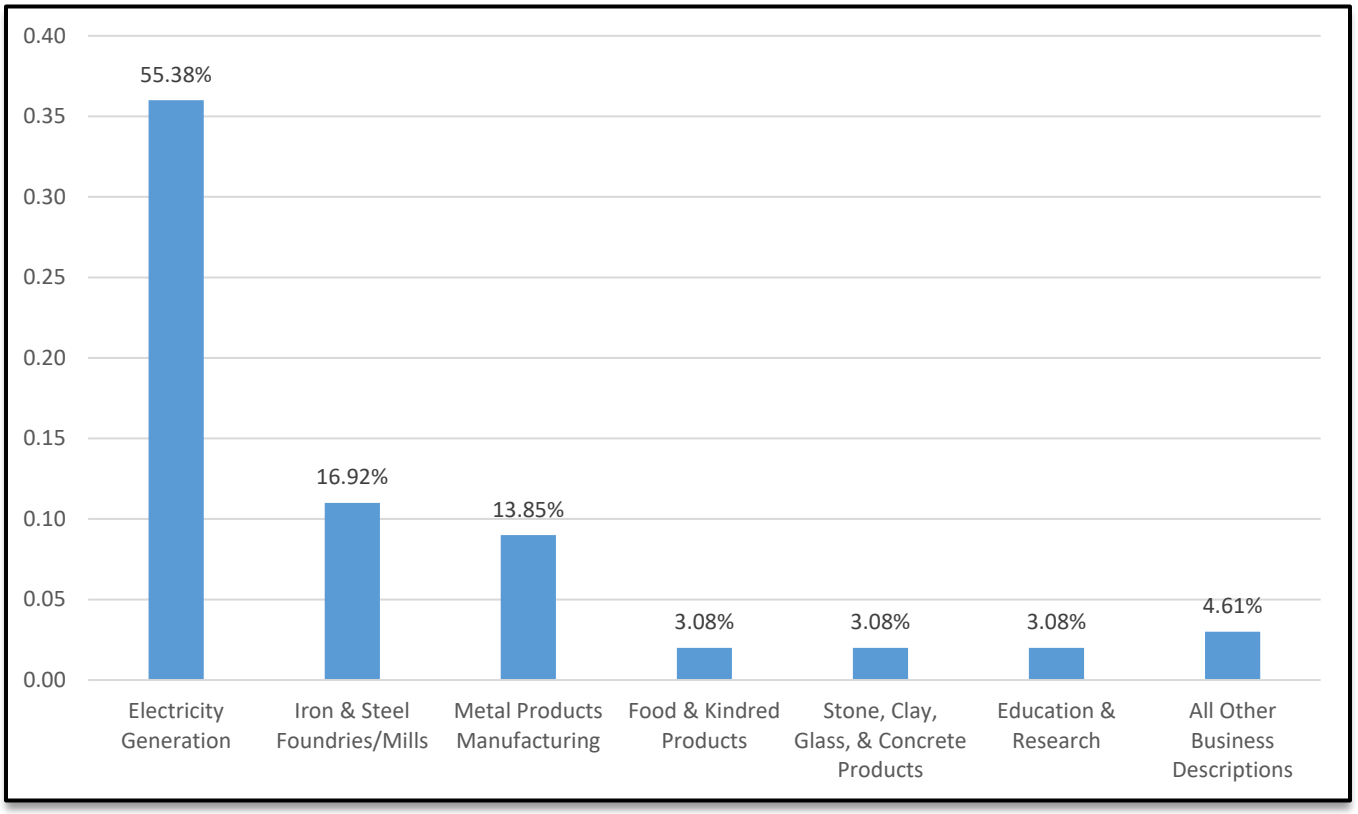
Pb

Lead (Pb) emissions in Iowa decreased 0.24 tons (29%) from 2023 to 2024. The business description with the largest decrease in Pb emissions from 2023 to 2024 was Stone, Clay, Glass, & Concrete Products. Specifically, one facility with a cement kiln reported 0.08 tons less in 2024 then they did in 2023. This reduction occurred as a result of a slight reduction in cement kiln production (5%) but also the use of a lower emission factor. The 2023 emissions estimate was based on older stack testing data for a majority of the year whereas the 2024 emissions estimate was based on more recent data that resulted in a lower emission rate.

Lead emissions from the Electricity Generation business description decreased 0.04 tons because of the decrease in coal combustion. Coal combustion from all facilities combined in the Electricity Generation business description decreased by about 2,215,000 tons (21.0%) from 2023 to 2024.

It should be noted that the revised Air Emissions Reporting Requirements (AERR) (February 19, 2015) only requires facilities to be reported to the NEI if they have actual emissions greater than the thresholds listed in Table 1 to Appendix A of 40 CFR Part 51.2.

Chart 9 - 2024 Statewide Point Source Pb Emissions by Business Type (tons)

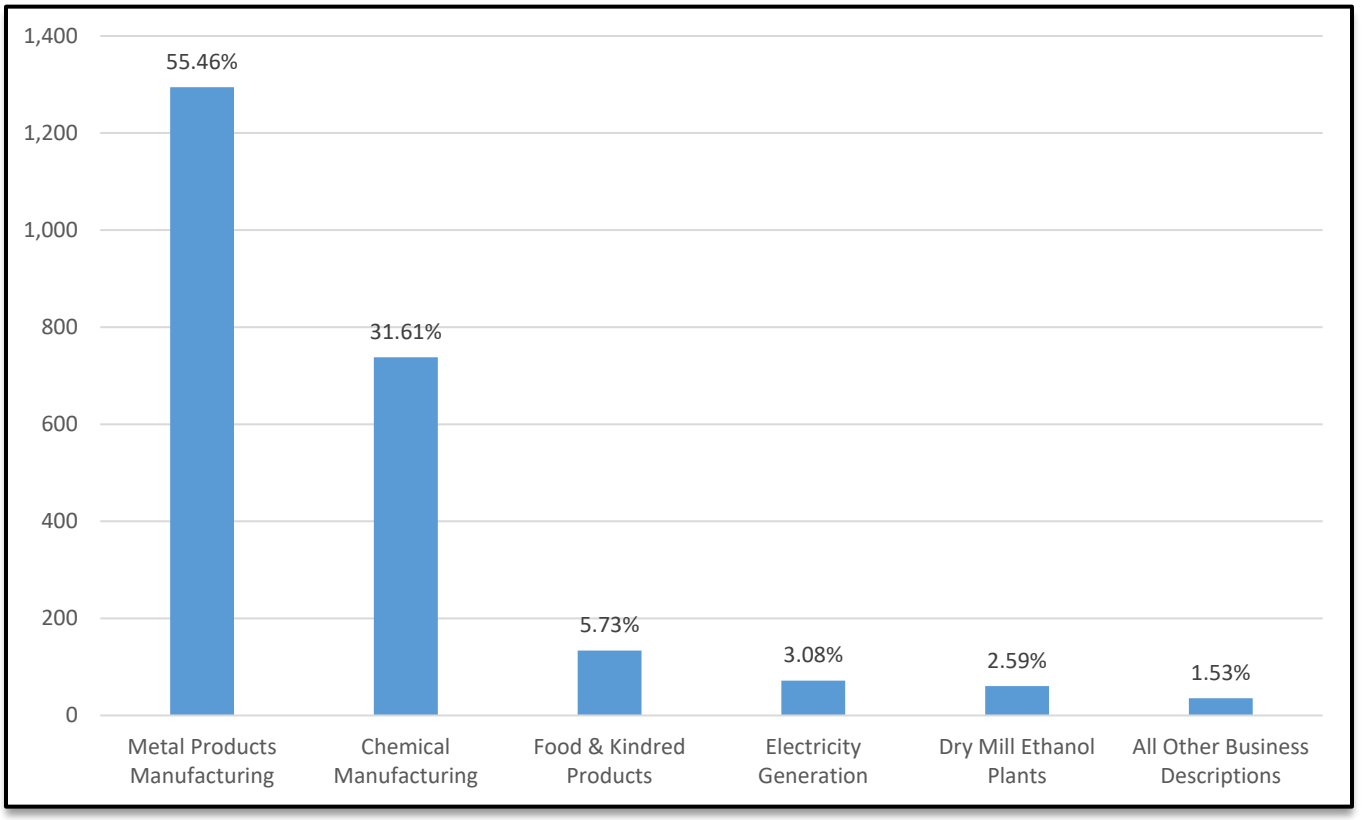


NH_3

The overall decrease in Ammonia (NH_3) emissions in Iowa from 2023 to 2024 was about 476 tons. The Metal Products Manufacturing business description was the only category with a significant change in emissions. This business description experienced a decrease of more than 490 tons of NH_3 emissions. All other business descriptions had negligible increases or decreases.

The decrease in emissions from the Metal Products Manufacturing business description occurred at a facility that refines molybdenum sulfide to produce a variety of molybdenum products and sulfuric acid. The NH_3 emissions decrease at this facility was due to their ability to increase their ammonia use efficiency. Ammonia usage decreased marginally by 5%, while ammoniated product increased. This ammonia usage efficiency was also reflected in other processes the facility reported ammonia emissions for.

Chart 10 - 2024 Title V Point Source NH_3 Emissions by Business Type (tons)

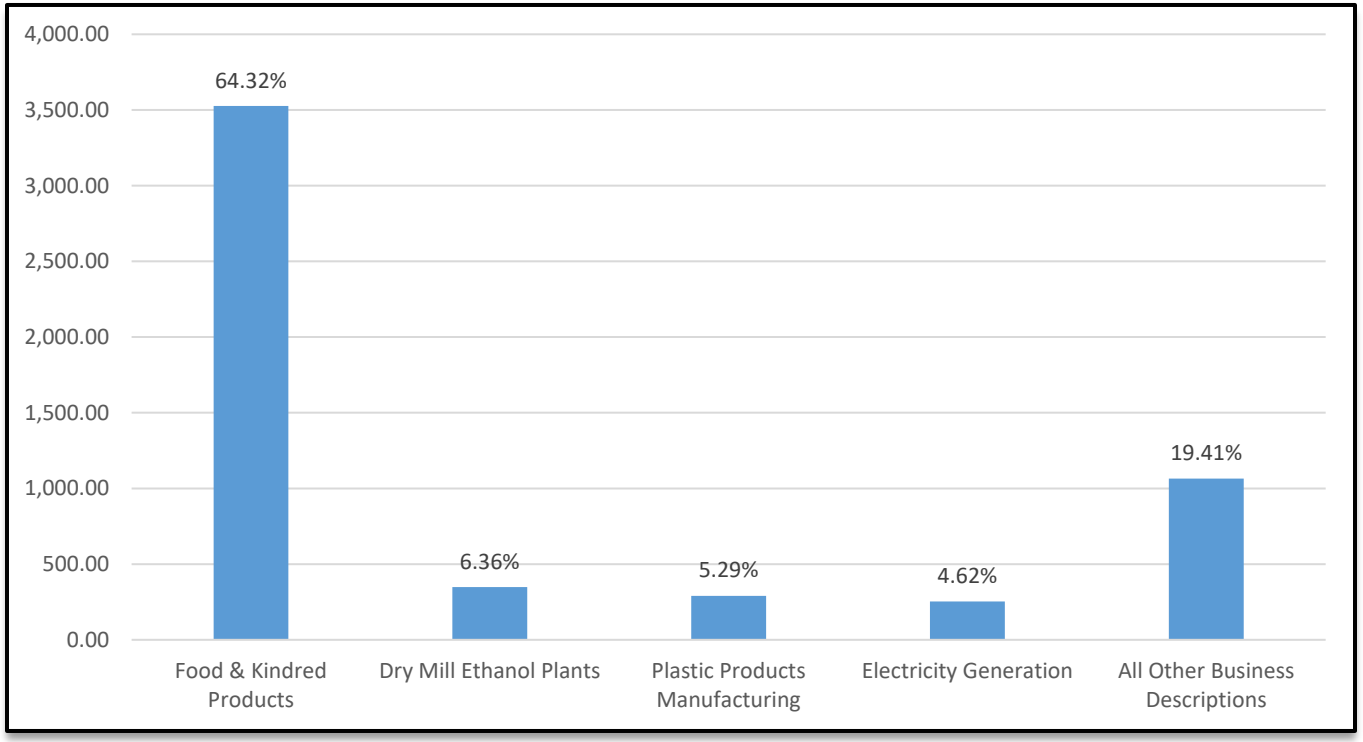


THAP

Total HAP emissions decreased by about 50 tons from 2023 to 2024. There were several business descriptions that had small increases in emissions and several that had small decreases in emissions that essentially offset each other from the overall change. However, two business descriptions had somewhat larger decreases in emissions that caused the state-wide total HAP emissions to trend downward compared to 2023. Those business descriptions were Stone, Clay, Glass, and Concrete Products and the Iron & Steel Foundries/Mills business descriptions. One facility in the Iron & Steel Foundries/Mills business description had

a reduction in their HAP emissions after a DNR review discovered the facility had been using conservative emission factors in previous emissions inventory submittals. As a result of the review, the facility refined the HAP emission factors and their HAP emissions decreased by almost 25 tons.

Chart 11 - 2024 Title V Point Source THAP Emissions by Business Type (tons)



III. Data Collection Methodology

Title V facilities are required to submit emissions inventory reports to DNR annually. All Title V facilities are required to report their emissions inventory using the State and Local Emissions Inventory System (SLEIS). Emissions inventory data then goes through numerous quality assurance checks as DNR staff conduct emissions inventory fee audits and comprehensive emissions inventory reviews. The SLEIS database also requires a high level of quality control through its business rules and validation checks prior to allowing facility users and DNR staff to submit emissions data to EPA.

IV. Data Improvements

The following is a list of improvements made to the NEI submittal since the 2014 emissions reporting cycle. Improvements below are related to the implementation of SLEIS, which DNR put into production on December 18, 2015:

A. SLEIS is an emissions inventory database that meets the CERS schema and business rules for EPA's Emissions Inventory System (EIS). The transition to SLEIS has allowed DNR to improve the accuracy of facility equipment and emissions data for the annual NEI submittal. The DNR has implemented nine enhancements to the SLEIS database that have, and will continue to result in:
   a) Improved quality of required data elements

b) Reduced data entry time for stakeholders
c) Facilitation of easier searching of air pollutants and emissions data
d) Improved readability of emission reports

B. The following data (required by the AERR and cited in Appendix C) that had not previously been included in NEI submittals prior to the 2015 reporting year:
   a) Unit Design Capacity and Unit Design Capacity Unit of Measure Code
   b) Control Measure Code and Pollutant Code
   c) Percent Control Measure Reduction Efficiency

The data above that are related to control are important to emissions estimates and assist in EPA modeling activities.

C. By continuing to offer industry training, DNR was able to inform facilities of ways to prevent emission processes, emission units, and release points from being omitted from the electronic emissions inventory submittals. Two virtual training sessions were held to facilitate accurate 2023 reporting. Additionally, on-line tutorials enable facilities to learn how to use SLEIS when they cannot attend virtual training.

D. In the 2015 NEI submittal, the release point, emission unit, and unit process identifiers were updated in EIS to reflect the identifiers that are used when facilities report their emissions inventories to DNR. Instead of using the record identifier (RID) as has been custom, DNR changed the identifier to the numbering scheme used by the facility (EP-1, EU-1, etc.) to reduce confusion and save time when extracting data out of EIS. This update helped streamline the 2016 NEI submittal process and DNR will continue to gain efficiencies during future work related to the National Air Toxics Assessment (NATA) since DNR staff will not have to crosswalk emissions between the RID and the identifier used by facilities when reporting emissions.

E. Beginning with the 2018 emissions reporting year, the DNR required Title V facilities to report their emissions electronically using SLEIS. Submitting emissions reports electronically benefits industry and their consultants, DNR staff, and EPA by allowing for:
   a) Improved quality of required data elements;
   b) A reduction in data entry time;
   c) Facilitation of easier searching of air pollutants and emissions data; and
   d) Enhancement of readability of emissions reports.

V. Appendices

A. Emissions Summary by Facility (Tons)
B. Business Types
C. Required Air Emissions Reporting Requirements & Emissions Inventory System Data Elements

Appendix A - Emissions Summary by Facility (tons)

Facility ID	Facility Name	PM25-PRI	PM10-PRI	SO2	NOX	VOC	CO	Pb	NH3	Total HAPs
02-05-001	PINNACLE ETHANOL, LLC DBA POET BIOREFINING CORNING	36.72	38.49	1.11	73.60	88.02	49.04	0.00	3.05	10.38
03-02-001	NORPLEX – MICARTA	48.03	48.03	0.05	6.68	510.26	5.56	0.00	0.21	142.56
03-02-007	Industrial Energy Applications, Inc.	0.03	0.03	0.00	1.71	0.04	0.02	0.00	0.00	0.00
04-01-002	Amcor Flexibles North America Inc.	0.13	0.13	0.01	1.71	18.54	1.43	0.00	0.05	0.00
05-04-002	WESTERN MINNESOTA MUNICIPAL POWER AGENCY	10.80	10.81	5.74	141.27	3.41	49.28	0.00	0.00	0.00
07-01-010	JOHN DEERE FOUNDRY WATERLOO	38.98	46.64	1.77	7.00	177.77	451.79	0.00	0.02	41.52
07-01-038	MIDAMERICAN ENERGY CO - ELECTRIFARM TURBINES	0.51	0.51	0.05	23.06	0.16	6.33	0.00	0.00	0.08
07-01-057	NORTHERN NATURAL GAS CO - WATERLOO COMPRESSOR	4.27	4.27	0.05	250.52	10.00	36.24	0.00	0.00	6.70
07-01-061	MASTERBRAND CABINETS, INC.	6.47	23.45	0.19	29.73	105.66	26.93	0.00	7.07	21.42
07-01-063	BERTCH CABINET, LLC. - WATERLOO	11.01	11.40	0.09	1.75	72.60	2.15	0.00	0.00	2.90
07-01-077	JOHN DEERE WATERLOO WORKS - DRIVE TRAIN OPERATIONS	0.66	0.66	0.08	10.60	1.78	10.25	0.00	0.25	0.27
07-01-085	JOHN DEERE WATERLOO WORKS - TCAO - DONALD ST	0.80	0.80	0.08	7.16	34.49	5.82	0.00	0.22	2.57
07-01-086	BERTCH CABINET, LLC. - OASIS FACILITY	1.15	1.15	0.00	0.00	21.15	0.00	0.00	0.00	15.10
07-01-087	JOHN DEERE PRODUCT ENGINEERING CENTER	2.37	2.37	0.07	104.82	3.21	19.16	0.00	0.03	0.13
07-01-091	JOHN DEERE ENGINE WORKS	1.33	1.51	0.04	15.90	22.41	5.19	0.00	0.08	0.38
07-01-107	CONAGRA FOODS PACKAGED FOODS - WATERLOO	6.52	8.18	0.07	11.95	78.52	10.04	0.00	0.38	0.22
07-01-111	John Deere Coating Service Center and Warehouse	0.65	0.65	0.02	3.05	11.54	2.56	0.00	0.10	1.20
07-01-121	BLACK HAWK COUNTY SANITARY LANDFILL	0.00	0.00	0.00	0.00	18.51	0.00	0.00	0.00	11.85
07-01-133	MIDAMERICAN ENERGY CO - WATERLOO LUNDQUIST STA.	0.01	0.01	0.00	0.38	0.01	0.04	0.00	0.00	0.00
07-02-005-01	CEDAR FALLS MUNICIPAL ELECTRIC UTILITY	0.34	0.48	19.94	27.77	0.38	6.33	0.00	0.22	0.42
07-02-005-02	CEDAR FALLS MUNICIPAL ELECTRIC UTILITY - CTS	0.09	0.09	0.04	5.25	0.03	1.05	0.00	0.00	0.00
07-02-005-03	CITY OF CEDAR FALLS - MUNICIPAL WATER UTILITY	0.00	0.00	0.00	0.11	0.00	0.03	0.00	0.00	0.00

Facility ID	Facility Name	PM25-PRI	PM10-PRI	SO2	NOX	VOC	CO	Pb	NH3	Total HAPs
07-02-006-01	UNIVERSITY OF NORTHERN IOWA - MAIN CAMPUS	0.06	0.06	0.11	1.03	0.59	0.36	0.00	0.00	0.01
07-02-006-02	UNIVERSITY OF NORTHERN IOWA - POWER PLANT	7.09	7.58	88.91	77.26	2.08	32.92	0.00	1.37	1.49
07-02-023	METOKOTE CORPORATION - PLANT 15 - CEDAR FALLS	1.02	1.02	0.02	2.93	35.52	2.46	0.00	0.00	0.26
08-03-004	NORTHERN NATURAL GAS CO - OGDEN COMPRESSOR	8.57	8.57	1.24	422.84	26.75	87.59	0.00	0.04	10.29
09-01-013	WAVERLY LIGHT & POWER - NORTH & SOUTH PLANTS	0.09	0.14	0.00	4.57	0.53	0.42	0.00	0.00	0.00
10-02-008	BERTCH CABINET, LLC. - LEGACY DIVISION - JESUP	3.33	3.37	0.08	1.72	105.25	2.04	0.00	0.00	4.66
10-04-007	POET Biorefining FAIRBANK, LLC	26.22	36.95	10.52	99.46	113.41	28.79	0.00	5.92	11.23
11-02-007	Platinum Crush, LLC	11.16	11.61	0.16	8.44	153.41	8.53	0.00	0.00	97.68
11-05-004	VALERO RENEWABLE FUELS CO, LLC - ALBERT CITY	41.58	46.42	1.04	93.22	88.73	41.66	0.00	0.00	10.66
12-04-005	UNVERFERTH MANUFACTURING CO, INC	2.94	2.99	0.00	1.98	51.02	1.14	0.00	0.00	12.66
12-04-007	POET Biorefining SHELL ROCK, LLC	31.11	40.25	0.90	111.35	145.88	57.41	0.00	4.84	18.63
12-04-012	Shell Rock Soy Processing	1.84	4.14	0.25	22.47	233.34	0.94	0.00	0.00	148.49
14-02-003	AG PROCESSING, INC - MANNING	7.10	18.53	0.13	10.70	244.39	10.13	0.00	0.00	150.33
14-07-002	Templeton Rye Spirits, LLC	0.12	0.13	0.01	1.11	219.29	1.26	0.00	0.00	0.06
15-01-042	Elite Octane, LLC	44.49	45.30	23.08	57.57	139.27	97.59	0.00	0.00	14.87
16-01-004	XERXES CORPORATION	0.10	0.10	0.00	0.00	87.37	0.00	0.00	0.00	74.39
17-01-005	Heidelberg Materials US Cement LLC	98.13	139.20	141.76	415.96	66.77	292.57	0.01	3.07	12.78
17-01-027	AG PROCESSING, INC - MASON CITY	6.47	22.83	0.16	22.33	114.95	18.66	0.00	0.00	72.23
17-01-066	IPL - LIME CREEK COMBUSTION TURBINES STATION	0.01	0.01	0.00	0.24	0.00	0.08	0.00	0.00	0.00
17-01-068	WOODHARBOR CUSTOM CABINETRY	0.68	0.88	0.00	0.00	56.27	0.02	0.00	0.00	9.64
17-01-087-02	CURRIES DIVISION OF AADG, INC - 12TH ST NW	3.94	4.98	0.01	0.80	57.64	0.80	0.00	0.00	41.28
17-01-100	GOLDEN GRAIN ENERGY, LLC - MASON CITY	42.09	46.32	14.88	100.47	86.44	15.44	0.00	5.06	13.51
17-02-002	MAGELLAN PIPELINE CO, LLC - MASON CITY	0.00	0.00	0.00	4.48	53.74	11.22	0.00	0.00	2.35
17-02-016	IPL - EMERY GENERATING STATION	46.85	46.85	5.42	78.23	0.17	26.70	0.00	14.00	0.05
17-02-024	LANDFILL OF NORTH IOWA	0.00	0.00	0.00	0.00	9.23	2.28	0.00	0.00	5.77
18-02-006	LITTLE SIOUX CORN PROCESSORS, LLC	56.19	59.44	7.18	136.39	63.77	93.83	0.00	0.00	10.32

Facility ID	Facility Name	PM25-PRI	PM10-PRI	SO2	NOX	VOC	CO	Pb	NH3	Total HAPs
19-04-002	HOMELAND ENERGY SOLUTIONS, LLC	37.64	39.55	2.30	111.49	131.30	124.31	0.00	0.00	15.69
20-01-018	ALTEC OSCEOLA BODY PLANT	0.00	0.00	0.00	0.00	32.98	0.00	0.00	0.00	23.50
21-01-003	CORN BELT POWER - WISDOM GENERATING STATION	1.14	1.16	0.19	6.62	0.41	0.64	0.00	0.16	0.10
23-01-004	EQUISTAR CHEMICALS, LP	4.24	30.71	1.86	719.69	1,921.98	416.44	0.00	22.29	26.87
23-01-006-01	ADM CLINTON CORN PROCESSING	50.57	57.40	42.74	49.13	574.88	40.59	0.00	4.34	121.23
23-01-006-02	ADM CORN PROCESSING / COGEN PLANT - CLINTON	51.40	78.71	455.21	1,351.18	3.67	34.08	0.01	4.29	22.01
23-01-006-03	ADM CLINTON BIOPROCESSING	0.41	0.45	0.04	0.82	4.05	0.20	0.00	0.00	0.00
23-02-013	GUARDIAN INDUSTRIES CORPORATION	14.53	14.53	107.00	277.92	39.72	10.20	0.00	0.33	0.00
23-02-028	LATHAM POOL PRODUCTS, INC.	0.00	0.12	0.00	0.00	48.54	0.00	0.00	0.00	45.14
24-01-001	SMITHFIELD FARMLAND CORP. - DENISON	12.17	12.39	0.15	25.66	10.65	64.71	0.00	8.14	0.48
24-01-007	THE ANDERSONS DENISON ETHANOL, LLC	16.47	20.79	0.51	34.84	43.16	33.28	0.00	2.54	7.75
24-01-035	Continental Carbonic Products, Inc	0.29	0.29	0.00	0.00	3.47	0.34	0.00	0.00	3.45
25-02-001	GLEN-GERY CORPORATION	4.04	7.69	2.52	57.98	2.40	37.50	0.01	0.00	0.88
25-05-002	NORTHERN NATURAL GAS CO - REDFIELD COMPRESSOR	5.57	5.57	3.54	148.87	31.93	57.34	0.00	0.04	7.13
25-17-008	Ginger West Data Center	0.02	0.02	0.00	3.37	0.03	0.10	0.00	0.00	0.00
28-01-026	ALLIANCE PIPELINE L.P. - MANCHESTER	5.08	5.08	2.62	71.55	7.49	67.45	0.00	0.00	0.82
28-12-001	BIG RIVER UNITED ENERGY, LLC - DYERSVILLE	18.41	20.48	5.29	83.48	61.46	56.70	0.00	0.00	11.22
29-01-004	IOWA ARMY AMMUNITION PLANT	8.67	8.97	99.64	68.68	9.80	52.13	0.00	1.62	3.98
29-01-006	CNH INDUSTRIAL AMERICA, LLC.	1.02	1.15	0.02	3.32	9.31	2.69	0.00	0.00	0.66
29-01-013	IPL - BURLINGTON GENERATING STATION	0.46	0.46	0.04	9.20	0.49	5.91	0.00	0.30	0.16
29-01-079	RILEY INDUSTRIAL PAINTING	0.87	0.87	0.00	0.02	1.27	0.00	0.00	0.00	0.21
29-01-098	SILGAN CONTAINERS MFG CORP - BURLINGTON	0.78	0.78	0.06	10.22	29.31	8.58	0.00	0.00	0.58
29-02-010	DES MOINES COUNTY REGIONAL SANITARY LANDFILL	0.00	0.00	0.00	0.00	5.45	1.34	0.00	0.00	3.46
29-02-012	BIG RIVER RESOURCES WEST BURLINGTON, LLC	38.25	43.90	63.60	103.42	80.35	83.99	0.00	0.00	10.40
29-06-001	UNITED STATES GYPSUM CO - SPERRY	45.64	45.64	0.73	83.83	32.81	71.22	0.00	2.93	7.33
30-01-012	POLARIS INDUSTRIES, INC - SPIRIT LAKE	7.77	7.78	0.03	3.85	63.18	3.15	0.00	0.00	1.98
30-02-004	MAGELLAN PIPELINE CO, LLC - MILFORD	0.00	0.00	0.00	0.00	172.60	0.00	0.00	0.00	6.34

Facility ID	Facility Name	PM25-PRI	PM10-PRI	SO2	NOX	VOC	CO	Pb	NH3	Total HAPs
30-02-010	NUSTAR PIPELINE OP PARTNERSHIP LP - MILFORD	0.00	0.00	0.00	0.00	119.53	0.00	0.00	0.00	0.41
30-08-002	GREEN PLAINS ETHANOL STORAGE, LLC (GP SUPERIOR)	19.42	22.75	1.91	66.86	56.02	24.89	0.00	3.78	9.24
31-01-009	JOHN DEERE DUBUQUE WORKS	8.73	8.73	0.14	19.45	91.76	14.28	0.00	0.00	1.89
31-01-034	MAGELLAN PIPELINE CO, LLC - DUBUQUE	0.00	0.00	0.00	0.00	67.36	0.00	0.00	0.00	3.00
31-01-061	EAGLE WINDOW & DOOR, INC	2.74	3.18	0.00	1.09	165.08	0.91	0.00	0.03	15.06
31-01-151	DUBUQUE METROPOLITAN SANITARY LANDFILL	0.00	0.00	0.00	0.00	6.56	0.00	0.00	0.00	4.17
32-01-016	Moveero- Estherville	1.56	1.56	0.01	1.11	22.16	0.93	0.00	0.04	0.39
32-02-004	Moveero - ARMSTRONG	2.49	2.49	0.01	1.15	9.28	0.96	0.00	0.04	0.11
33-01-003	ASHLEY INDUSTRIAL MOLDING, INC	0.26	0.28	0.01	1.49	36.94	1.25	0.00	0.05	9.69
33-01-016	TRANSCO RAILWAY PRODUCTS, INC. - OELWEIN	0.80	0.95	0.02	3.85	23.27	3.23	0.00	0.00	4.48
33-01-020	BERTCH CABINET, LLC. - OELWEIN	1.07	1.09	0.00	0.31	45.75	0.26	0.00	0.00	2.57
34-01-015	CAMBREX CHARLES CITY, INC	0.00	0.85	0.00	0.00	1.82	0.73	0.00	0.04	2.68
34-01-023	MIDAMERICAN ENERGY CO - MERL PARR TURBINES	0.02	0.02	0.00	1.06	0.01	0.27	0.00	0.00	0.00
34-01-027	WINNEBAGO INDUSTRIES, INC - CHARLES CITY	0.12	0.21	0.00	0.01	9.62	0.01	0.00	0.00	0.73
34-01-035	CDI, LLC - CHARLES CITY	0.31	0.31	0.00	0.00	9.92	0.00	0.00	0.00	2.27
34-01-040	VALERO RENEWABLE FUELS CO, LLC dba Valero CHARLES CITY	37.02	42.27	1.13	91.34	87.52	23.40	0.01	0.00	12.86
36-10-001-01	GREEN PLAINS ETHANOL STORAGE, LLC (GP SHENANDOAH)	30.39	34.89	7.73	46.15	114.30	25.46	0.00	2.99	17.61
39-06-002	POET Biorefining MENLO, LLC	21.65	30.43	3.59	76.01	107.62	52.35	0.00	5.49	9.39
39-11-001	POET BIOREFINING - COON RAPIDS	46.96	52.00	0.33	64.28	130.38	48.28	0.00	0.00	13.01
40-01-003	WEBSTER CITY COMBUSTION TURBINE	0.35	0.35	0.19	3.97	0.00	0.27	0.00	0.00	0.00
40-01-011	VAN DIEST SUPPLY COMPANY	1.94	6.64	0.06	5.34	65.22	4.22	0.00	1.36	5.48
40-02-002	POET BIOREFINING - JEWELL	46.26	52.06	0.61	53.30	72.73	80.95	0.00	0.00	7.62
41-02-005-02	NORTHERN NATURAL GAS CO - VENTURA COMPRESSOR	0.67	0.67	0.12	39.03	1.08	8.51	0.00	0.02	0.67
41-02-010	ZINPRO CORPORATION	34.20	34.59	0.06	9.47	24.20	7.95	0.00	0.00	15.72
41-02-011	STELLAR INDUSTRIES, INC	0.90	0.90	0.00	0.47	37.01	0.39	0.00	0.01	1.62
41-02-020	Northern Natural Gas Co.-Garner LNG Plant	0.11	0.11	0.01	2.81	13.63	7.55	0.00	0.01	0.01

Facility ID	Facility Name	PM25-PRI	PM10-PRI	SO2	NOX	VOC	CO	Pb	NH3	Total HAPs
42-01-003	CARGILL, INC - IOWA FALLS	17.67	18.91	0.14	23.41	317.96	19.66	0.00	0.00	152.23
42-01-019	POET Biorefining IOWA FALLS, LLC	20.56	28.19	2.45	91.93	94.85	51.96	0.00	7.10	6.71
42-08-001	PLCP, L.P.	39.44	42.04	2.41	93.90	117.58	56.60	0.00	0.00	20.61
42-08-003	NATURALLY RECYCLED PROTEINS of IOWA	7.92	7.92	0.03	5.91	0.12	3.55	0.00	0.14	1.28
45-01-003	DONALDSON COMPANY, INC - CRESCO	0.06	0.06	0.01	0.79	114.07	0.71	0.00	0.02	8.11
45-01-007	IEA-SBD-9206-DONALDSON	0.00	0.00	0.00	0.14	0.00	0.00	0.00	0.00	0.00
46-01-034	PRECISION TANK & EQUIPMENT CO	4.24	4.24	0.00	0.00	9.83	0.00	0.00	0.00	9.42
47-04-001	POET Biorefining ARTHUR, LLC	25.04	40.00	2.52	88.97	77.84	45.05	0.00	5.27	9.98
49-01-013-01	MAQUOKETA MUNICIPAL ELEC UTILITY	0.10	0.14	0.00	3.38	0.65	0.66	0.00	0.00	0.01
50-01-049	Arcosa Wind Towers, Inc. - Newton	1.15	1.15	0.00	0.40	65.12	0.34	0.00	0.00	16.57
51-01-005	HyCast Foundry LLC	0.23	0.35	0.01	0.04	0.13	0.12	0.00	0.00	0.03
51-03-001	ANR PIPELINE CO - BIRMINGHAM COMPRESSOR	1.32	1.32	0.14	21.99	2.55	22.29	0.00	0.00	0.15
52-01-005-01	UNIVERSITY OF IOWA	4.32	4.45	0.27	28.28	16.01	15.80	0.00	0.03	0.04
52-01-005-02	UNIVERSITY OF IOWA MAIN POWER PLANT	14.27	15.97	47.68	161.91	30.70	103.20	0.02	0.33	13.54
52-01-032	ENTERPRISE PROD. OPERATING LLC - IOWA CITY NGL FAC	2.82	2.82	0.45	11.72	5.29	14.38	0.00	0.00	0.03
52-01-037	LOPAREX, INC	6.05	6.05	0.06	9.70	72.75	8.15	0.00	0.33	19.40
52-01-053	IOWA CITY SANITARY LANDFILL	1.87	14.74	0.02	1.37	3.94	3.97	0.00	0.04	2.15
52-02-001	MIDAMERICAN ENERGY CO - CORALVILLE TURBINES	0.06	0.06	0.01	3.13	0.02	0.80	0.00	0.00	0.01
52-02-006	MAGELLAN PIPELINE CO, LLC - IOWA CITY	0.00	0.00	0.00	7.38	83.30	18.44	0.00	0.00	3.72
53-02-008	ROBERTSON CECO II DBA STAR BUILDING SYSTEMS	0.36	8.90	0.00	0.85	33.55	0.63	0.00	0.00	1.48
54-10-001	NATURAL GAS PIPELINE CO OF AMERICA - STATION 109	16.68	16.68	0.21	883.28	54.65	149.90	0.00	0.00	27.20
55-01-032	AG PROCESSING, INC - ALGONA	1.37	6.14	0.07	11.02	5.89	9.26	0.00	0.00	5.29
55-03-004	BRAND FX BODY COMPANY - SWEA CITY	1.36	1.36	0.00	0.00	19.29	0.00	0.00	0.00	11.27
55-09-003	Valero Renewable Fuels Company, LLC dba Valero Lakota Plant	29.25	36.38	6.61	116.10	117.53	31.35	0.00	3.64	15.26
56-01-008	HENNIGES AUTOMOTIVE IOWA, INC	79.08	79.12	1.64	3.86	34.42	5.00	0.00	1.77	10.48
56-01-009	ROQUETTE AMERICA, INC	62.96	103.58	204.88	208.86	183.04	94.81	0.01	5.11	6.11
56-01-023	AMSTED RAIL COMPANY, INC	31.74	37.26	3.90	40.23	21.88	419.47	0.02	5.44	6.23

Facility ID	Facility Name	PM25-PRI	PM10-PRI	SO2	NOX	VOC	CO	Pb	NH3	Total HAPs
56-01-025	Keokuk Mills, LLC dba KEOKUK STEEL CASTING, INC	9.69	9.69	0.03	5.72	70.64	4.80	0.02	0.18	9.56
56-02-021	CLIMAX MOLYBDENUM COMPANY	16.94	18.29	216.63	26.68	1.55	20.89	0.00	1,285.69	0.40
56-02-030	SILGAN CONTAINERS MFG. CORP. - FORT MADISON	0.23	0.23	0.00	0.23	196.79	0.19	0.00	0.01	0.10
56-02-053	SIEMENS GAMESA RENEWABLE ENERGY INC.	0.14	0.27	0.00	0.00	13.65	0.00	0.00	0.00	0.87
56-10-001	Koch Fertilizer Wever, LLC	15.30	15.83	2.07	147.51	61.18	39.07	0.00	186.46	7.21
57-01-002	CARGILL, INC - DOMESTIC SOYBEAN PROCESSING	19.39	28.76	0.08	13.88	157.57	11.00	0.00	0.00	100.62
57-01-003	CARGILL, INC - CEDAR RAPIDS - SOYBEAN EAST PLANT	12.71	16.88	0.18	30.48	271.62	25.61	0.00	0.00	135.48
57-01-004	CARGILL, INC - CEDAR RAPIDS	16.50	44.30	17.31	50.01	178.97	99.06	0.00	2.45	50.95
57-01-012	GM Cereal Properties, Inc.	46.33	46.33	0.29	39.93	36.82	33.35	0.00	1.27	0.00
57-01-025	INGREDION INCORPORATED	35.57	77.98	33.67	22.24	125.07	9.26	0.00	1.70	10.68
57-01-027	QUAKER MANUFACTURING, LLC	56.22	56.46	0.13	25.09	5.30	19.15	0.00	0.70	0.92
57-01-042	IPL - PRAIRIE CREEK GENERATING STATION	109.50	111.17	1,467.26	885.85	11.11	370.54	0.01	1.67	12.27
57-01-077	CEDAR RAPIDS WPCF	3.99	4.00	1.68	44.17	9.86	24.19	0.00	0.39	9.38
57-01-080	ADM CORN PROCESSING - CEDAR RAPIDS	99.34	239.66	1,435.14	848.52	699.53	361.95	0.01	77.76	174.47
57-01-095	PMX INDUSTRIES, INC	27.47	28.08	0.06	13.44	25.02	8.80	0.00	0.33	0.35
57-01-130-02	CEDAR RAPIDS LINN CTY SLD WST AGCY SANI LNDFLL #2	1.23	1.23	9.55	4.32	3.94	17.31	0.00	0.00	8.69
57-01-153	INTERNATIONAL PAPER CEDAR RIVER MILL	28.98	33.02	0.03	1.81	125.60	1.31	0.00	0.00	69.18
57-01-226-01	RED STAR YEAST COMPANY, LLC	4.63	5.53	0.00	0.37	195.48	1.41	0.00	0.00	41.05
57-01-226-02	BIOSPRINGER NORTH AMERICA CORP	4.16	7.23	0.01	1.46	0.43	1.23	0.00	0.00	0.00
57-01-246	Vantage Corn Processors, LLC	6.42	27.67	12.46	61.49	45.02	76.04	0.00	4.13	10.11
58-02-007	NATURAL GAS PIPELINE CO OF AMERICA - STATION 204	3.53	3.53	0.08	48.89	8.50	12.05	0.00	0.00	6.52
58-04-002	NATURAL GAS PIPELINE CO OF AMERICA - STATION 199	0.00	0.00	0.00	0.13	0.00	0.25	0.00	0.00	0.00
58-07-001	MIDAMERICAN ENERGY CO - LOUISA STATION	112.19	125.92	1,179.31	2,591.84	3.40	3,289.27	0.03	1.03	12.20
60-01-012	NUSTAR PIPELINE OP PARTNERSHIP LP - ROCK RAPIDS	0.00	0.00	0.00	0.00	19.72	0.00	0.00	0.00	0.08
60-06-006	Gevo NW Iowa RNG, LLC (RNG Facility)	0.34	0.34	151.05	1.91	11.42	5.96	0.00	0.00	0.12

Facility ID	Facility Name	PM25-PRI	PM10-PRI	SO2	NOX	VOC	CO	Pb	NH3	Total HAPs
62-01-001-01	CLOW VALVE COMPANY - FOUNDRY	1.45	2.16	0.19	0.08	14.30	32.91	0.00	0.00	5.86
62-01-001-02	CLOW VALVE COMPANY - MACHINE SHOP	2.40	2.46	0.01	4.12	2.37	3.45	0.00	0.00	0.96
63-01-001	3M (MINNESOTA MINING & MFG CO) - KNOXVILLE	2.39	2.39	0.06	9.89	109.56	8.14	0.00	0.31	28.43
63-01-013	NATURAL GAS PIPELINE CO OF AMERICA - STATION 198	0.84	0.84	0.43	41.34	0.26	18.21	0.00	0.00	0.13
63-01-017	MIDAMERICAN ENERGY CO - KNOXVILLE POWER STATION	0.01	0.01	0.00	0.36	0.01	0.04	0.00	0.00	0.00
63-02-003	PELLA CORPORATION - PELLA DIVISION	8.88	8.88	0.03	5.47	151.21	4.59	0.00	0.09	10.54
63-02-004	VERMEER CORPORATION	10.76	14.05	0.22	13.15	146.83	10.32	0.00	0.00	2.80
63-02-023	PELLA WEST SUBSTATION	0.09	0.10	0.06	1.92	0.13	0.05	0.00	0.00	0.00
63-08-001	SOUTH CENTRAL IOWA SOLID WASTE AGENCY (SCISWA)	0.00	0.00	0.00	0.00	2.33	1.58	0.00	0.00	4.05
64-01-012	IPL - MARSHALLTOWN GENERATING STATION	38.10	38.10	8.15	225.01	3.73	136.66	0.00	24.83	9.38
64-01-015	JBS USA LLC	2.62	8.01	5.86	34.49	8.01	28.97	0.00	0.00	0.63
64-01-045	INDUSTRIAL ENERGY APPLICATIONS, INC. - JBS USA	0.01	0.01	0.00	0.78	0.02	0.01	0.00	0.00	0.00
64-01-094	MTBT- Marshalltown	0.49	0.49	0.07	14.83	0.26	26.96	0.00	0.00	3.45
64-02-005	Marshall Ridge Renewable Energy LLC	0.68	0.68	95.39	3.62	3.00	5.31	0.00	0.06	0.13
65-02-005	LOESS HILLS SANITARY LANDFILL	0.00	0.00	0.10	0.34	7.60	8.42	0.00	0.00	9.33
65-04-001	NATURAL GAS PIPELINE CO OF AMERICA - STATION 107	20.75	20.75	0.27	1,219.47	32.30	325.48	0.00	0.00	34.75
66-10-001	ABSOLUTE ENERGY, LLC	40.28	41.94	34.87	84.85	72.54	98.18	0.00	0.00	9.33
68-09-001	CARGILL, INC - EDDYVILLE	236.57	243.72	300.29	253.64	512.13	316.99	0.00	10.96	143.38
68-09-002	Ajinomoto Health and Nutrition North America, Inc.	16.12	16.72	0.52	67.02	10.55	78.35	0.00	2.77	2.12
68-09-003	AJINOMOTO HEALTH AND NUTRITION NORTH AMERICA, INC	4.32	4.34	0.02	0.30	1.64	7.85	0.00	0.00	0.31
68-09-005	CARGILL - VITAMIN E - EDDYVILLE	0.92	0.92	0.01	1.60	4.20	1.61	0.00	0.00	4.05
68-09-006	WACKER CHEMICAL CORPORATION	1.25	1.45	0.09	7.24	14.82	16.12	0.00	0.00	8.68
68-09-008	EDDYVILLE CHLOR-ALKALI, LLC	0.39	0.39	0.03	5.23	0.29	4.34	0.00	0.16	0.09
68-09-009	Qore, LLC	0.01	0.01	0.00	1.17	0.03	0.15	0.00	0.00	0.00
69-01-020	FRES-CO SYSTEM USA, INC	0.04	0.18	0.02	2.32	35.72	1.93	0.00	0.04	0.00
70-01-004	GRAIN PROCESSING CORPORATION	62.22	86.54	42.48	433.48	628.59	263.25	0.00	11.83	30.16

Facility ID	Facility Name	PM25-PRI	PM10-PRI	SO2	NOX	VOC	CO	Pb	NH3	Total HAPs
70-01-005	KRAFT HEINZ - MUSCATINE	0.05	0.07	0.04	1.38	11.16	0.11	0.00	0.00	0.26
70-01-006	HNI CORPORATION - CENTRAL CAMPUS	1.82	1.82	0.05	4.31	11.16	3.32	0.00	0.03	0.46
70-01-008-01	Bayer CropScience LP 3670	4.23	4.23	0.04	6.56	25.11	10.66	0.00	0.17	10.73
70-01-008-02	Bayer CropScience LP 6908	0.97	0.97	0.00	0.00	5.26	0.00	0.00	1.40	2.41
70-01-008-03	Bayer CropScience LP 6909	6.73	6.73	0.37	65.54	31.40	52.41	0.00	2.86	8.20
70-01-011	MUSCATINE POWER & WATER	28.78	62.46	231.41	695.92	12.84	56.98	0.00	0.00	3.29
70-01-048	UNION TANK CAR CO - MUSCATINE	1.97	3.83	0.02	3.27	33.49	3.20	0.00	0.10	11.91
70-01-050	HNI CORPORATION - NORTH CAMPUS	3.87	3.87	0.07	5.38	7.22	4.12	0.00	0.04	2.33
70-01-054	HARSCO METALS	3.71	3.71	0.31	0.91	0.14	0.21	0.00	0.00	0.00
70-03-003	GERDAU	4.10	9.07	3.16	14.23	83.65	260.92	0.00	0.00	4.42
70-08-002	SSAB IOWA, INC - MUSCATINE	121.01	167.30	109.87	502.40	70.99	753.32	0.09	0.00	0.15
71-01-001	AG PROCESSING, INC - SHELDON	9.33	37.65	0.15	24.06	280.41	20.13	0.00	0.00	178.00
71-02-010	VALERO RENEWABLE FUELS CO, LLC - HARTLEY	52.81	58.60	1.31	90.18	88.04	34.46	0.00	0.00	12.39
72-03-002	POET BIOREFINING - ASHTON	42.22	56.34	0.21	44.85	66.06	33.87	0.00	1.91	6.16
73-01-018	MIDAMERICAN ENERGY CO - SHENANDOAH POWER STATION	0.01	0.01	0.00	0.41	0.01	0.05	0.00	0.00	0.00
73-01-026	CITY OF SHENANDOAH - SHENANDOAH SANITATION, INC	0.00	0.06	0.02	0.71	0.34	2.48	0.00	0.00	0.00
73-02-010	NSK CORPORATION	0.17	0.17	0.01	2.22	52.56	1.86	0.00	0.00	0.21
74-01-012	AG PROCESSING, INC - EMMETSBURG	4.70	12.76	0.13	19.71	114.82	16.56	0.00	0.00	73.34
74-01-022	Poet Biorefining - Emmetsburg	26.66	27.43	7.22	57.16	40.91	42.99	0.00	1.28	7.18
75-01-018	NUSTAR PIPELINE OP PARTNERSHIP LP - LE MARS	0.00	0.00	0.00	0.00	28.57	0.00	0.00	0.00	0.12
76-01-014	BRAND FX BODY COMPANY - POCAHONTAS	1.45	1.45	0.00	0.02	14.89	0.00	0.00	0.00	11.11
77-01-003	TITAN TIRE CORPORATION	0.97	2.50	0.08	12.78	52.70	10.71	0.00	0.41	1.79
77-01-022	BRIDGESTONE AMERICAS TIRE OPERATIONS, LLC	15.08	26.89	0.19	77.02	160.47	23.12	0.00	0.88	5.07
77-01-035	JOHN DEERE DES MOINES WORKS	10.48	10.50	0.10	16.32	43.42	13.64	0.00	0.50	1.95
77-01-045	ADM - DES MOINES SOYBEAN	23.31	29.04	0.38	89.77	588.10	20.71	0.00	0.00	375.18
77-01-054	MIDAMERICAN ENERGY CO - RIVER HILLS TURBINES	0.12	0.12	0.01	5.62	0.04	1.44	0.00	0.00	0.00
77-01-109	CONSTRUCTION PRODUCTS, INC	4.06	4.07	0.05	0.17	33.71	0.04	0.00	0.00	14.84
77-01-114	MAGELLAN PIPELINE CO, LLC - DES MOINES	0.00	0.00	0.09	2.43	168.77	1.00	0.00	0.00	8.63

Facility ID	Facility Name	PM25-PRI	PM10-PRI	SO2	NOX	VOC	CO	Pb	NH3	Total HAPs
77-01-169	SIEGWERK USA INC - 129 SE 18TH ST	0.04	0.04	0.00	0.00	5.89	0.00	0.00	0.00	0.00
77-01-174	PRINCIPAL LIFE INSURANCE COMPANY	0.09	0.09	0.01	1.96	0.08	1.05	0.00	0.01	0.00
77-01-285	SIEGWERK USA INC - SW 56TH ST	2.16	2.16	0.08	0.29	14.41	0.07	0.00	0.00	0.00
77-01-317	CITY OF DSM METRO WASTEWATER RECLAIM AUTHORITY	1.83	1.83	10.92	14.76	14.57	44.02	0.00	0.24	0.48
77-01-337	Iowa EPS Products, Inc.	1.93	1.93	0.01	1.12	157.78	0.94	0.00	0.00	3.14
77-02-040	Willow Creek / Ginger East Data Centers	0.12	0.12	0.01	3.37	0.13	0.58	0.00	0.00	0.00
77-03-014	QUALITY MANUFACTURING CORP - URBANDALE	4.47	4.47	0.01	1.89	81.44	1.59	0.00	0.00	7.19
77-07-010	Siculus, Inc.	0.43	1.52	0.01	10.28	1.51	4.16	0.00	0.00	0.01
77-09-002	MIDAMERICAN ENERGY CO - SYCAMORE TURBINES	0.49	0.49	0.05	28.80	0.16	6.10	0.00	0.00	0.07
77-10-002	CB&I LLC	0.00	0.00	0.00	0.00	3.15	0.00	0.00	0.00	3.80
77-13-002	MIDAMERICAN ENERGY CO - PLEASANT HILL/GDMEC	85.73	85.73	4.86	102.74	7.46	107.32	0.00	0.01	4.52
77-14-002	METRO METHANE RECOVERY FACILITY	6.25	6.25	17.00	107.24	8.53	194.76	0.00	0.00	12.56
77-14-003	METRO PARK EAST SANITARY LANDFILL	0.00	0.00	0.00	0.00	11.60	0.00	0.00	0.00	7.34
78-01-026	WALTER SCOTT JR ENERGY CTR	345.13	594.91	3,006.02	4,433.78	67.17	4,061.17	0.24	6.64	22.75
78-01-085	BUNGE NORTH AMERICA, INC - 19560 BUNGE AVE	20.67	34.77	0.59	40.79	629.67	83.05	0.00	3.19	399.50
78-01-110	SOUTHWEST IOWA RENEWABLE ENERGY, LLC	15.62	27.19	2.21	57.62	75.27	70.90	0.00	3.52	6.46
78-01-121	GABLE CORPORATION	6.51	6.51	0.01	21.24	0.69	4.82	0.00	0.00	0.00
78-04-001	OSI INDUSTRIES, LLC	43.44	43.44	0.04	17.81	60.71	19.00	0.00	1.63	0.00
78-04-006	NORTHERN NATURAL GAS CO - OAKLAND COMPRESSOR	2.38	2.38	0.08	123.14	4.57	19.32	0.00	0.02	2.96
82-01-002	ARCONIC INC - DAVENPORT WORKS (FORMERLY ALCOA)	144.28	155.76	1.30	192.25	268.77	167.93	0.03	6.44	45.03
82-01-015	LINWOOD MINING & MINERALS CORP	158.00	161.22	12.80	50.39	0.03	92.91	0.00	0.00	0.00
82-01-017	NICHOLS ALUMINUM LLC - DAVENPORT - ROCKINGHAM RD	1.00	1.00	0.05	7.83	10.71	7.81	0.00	0.24	2.28
82-01-043	JOHN DEERE DAVENPORT WORKS	8.27	8.27	0.02	5.18	72.59	1.25	0.00	0.05	0.45
82-01-089	Novelis ALR Aluminum, LLC (Novelis Davenport Casting)	31.22	31.24	0.41	46.84	17.42	42.64	0.05	1.62	14.35
82-01-121	SCOTT COUNTY LANDFILL	0.01	0.01	0.18	0.02	11.49	2.84	0.00	0.00	4.61

Facility ID	Facility Name	PM25-PRI	PM10-PRI	SO2	NOX	VOC	CO	Pb	NH3	Total HAPs
82-02-052	VEOLIA WATER NORTH AMERICA - DAVENPORT	2.22	2.22	0.20	0.39	5.45	19.75	0.00	0.00	0.00
82-04-005	CONTINENTAL CEMENT COMPANY - DAVENPORT PLANT	162.74	207.03	2,275.52	1,774.98	71.16	950.76	0.00	4.82	78.67
84-11-003	West Branch RNG, LLC	0.53	0.53	28.43	2.72	18.92	21.76	0.00	0.00	0.07
85-01-006-01	CITY OF AMES COMBUSTION TURBINE	0.08	0.08	0.09	3.68	0.00	0.21	0.00	0.00	0.00
85-01-006-02	CITY OF AMES STEAM ELECTRIC PLANT	30.71	31.34	23.20	302.91	9.89	3.08	0.05	5.21	112.21
85-01-007	IOWA STATE UNIVERSITY	13.22	13.39	2.60	80.34	6.96	46.87	0.00	0.17	0.95
85-01-017	USDA - NATIONAL ANIMAL DISEASE CENTER	6.80	6.80	0.66	26.52	1.39	24.06	0.00	0.09	0.76
85-02-017	LINCOLNWAY ENERGY, LLC	28.24	29.57	0.54	49.39	72.53	77.25	0.00	0.00	8.81
85-03-003	AMERICAN PACKAGING CORPORATION	4.08	4.08	0.02	3.94	82.44	3.31	0.00	0.13	0.13
88-01-002	WDC Acquisition LLC	7.55	7.55	0.01	1.86	44.71	1.56	0.00	0.06	4.07
88-01-004	CENTRAL IOWA POWER COOP - SUMMIT LAKE	0.95	0.96	0.19	51.73	13.61	12.11	0.00	0.24	10.25
88-01-017	GREEN VALLEY CHEMICAL CORPORATION	4.32	4.32	0.56	116.25	127.16	260.77	0.00	0.75	2.60
88-01-021	White River Nutrition, LLC	4.31	8.21	0.07	11.17	126.43	9.38	0.00	0.00	80.47
90-01-003	JOHN DEERE OTTUMWA WORKS	1.69	1.93	0.03	4.81	82.07	4.05	0.01	0.15	2.18
90-01-020	JBS USA Pork	22.77	22.77	9.88	46.88	10.04	33.04	0.00	1.26	0.74
90-01-023	American Bath Group	0.51	0.51	0.00	0.00	5.24	0.00	0.00	0.00	2.93
90-01-070	MTBT- Ottumwa	0.40	0.40	0.11	13.73	0.21	22.76	0.00	0.00	2.87
90-07-001	IPL - OTTUMWA GENERATING STATION	317.47	325.78	593.39	551.38	0.41	677.10	0.01	12.24	8.56
91-01-002	INDIANOLA MUNICIPAL UTILITIES	0.61	0.61	0.03	6.27	0.09	0.07	0.00	0.00	0.00
91-01-015	CITY OF INDIANOLA - WWTP	0.10	0.10	0.00	1.48	0.12	0.32	0.00	0.00	0.00
91-01-038	City of Indianola Water Resource Recovery Facility	0.01	0.01	0.00	0.17	0.01	0.04	0.00	0.00	0.00
91-06-001	NATURAL GAS PIPELINE CO OF AMERICA - STATION 108	9.37	9.37	0.13	600.40	22.79	75.79	0.00	0.00	14.48
91-09-005	Osmium Data Center	0.85	0.85	0.02	11.15	0.82	1.72	0.00	0.00	0.02
92-01-021	Atlas Molded Productions- A Division of Atlas Roofing Corporation	0.12	0.12	0.01	1.57	97.24	1.32	0.00	0.00	0.28
92-10-001	NATURAL GAS PIPELINE CO OF AMERICA - STATION 205	2.41	2.41	0.02	3.15	1.09	1.46	0.00	0.00	1.11
93-05-001	ANR PIPELINE CO - LINEVILLE COMPRESSOR	0.93	0.93	0.06	100.83	10.82	35.91	0.00	0.00	6.62

Facility ID	Facility Name	PM25-PRI	PM10-PRI	SO2	NOX	VOC	CO	Pb	NH3	Total HAPs
94-01-005	KOCH FERTILIZER FT. DODGE, LLC	20.70	20.70	0.35	239.77	21.30	56.61	0.00	231.41	5.22
94-01-010	GEORGIA-PACIFIC GYPSUM, LLC - FORT DODGE	89.45	137.63	0.21	35.60	55.53	126.97	0.00	0.00	4.88
94-01-015	GOLD BOND BUILDING PRODUCTS, LLC	31.09	31.09	31.52	26.29	26.19	37.42	0.00	1.29	3.08
94-01-017	UNITED STATES GYPSUM CO - FORT DODGE	20.44	23.49	0.08	2.05	0.11	1.72	0.00	0.07	0.04
94-01-040	SILGAN CONTAINERS MFG CORP - FORT DODGE	1.88	1.88	0.22	29.09	215.15	17.13	0.00	0.04	0.91
94-01-073	VALERO RENEWABLE FUELS CO, LLC - FORT DODGE	45.35	52.04	1.13	69.88	88.33	38.21	0.00	0.00	9.92
94-01-079	NORTH CENTRAL IA REGIONAL SANITARY LANDFILL	0.00	0.00	0.00	0.00	4.13	2.05	0.00	0.00	5.27
94-01-080	CARGILL, INC - FORT DODGE	17.55	19.28	19.99	74.23	162.12	37.88	0.00	0.00	17.40
94-02-004	POET BIOREFINING - GOWRIE, LLC	54.85	67.26	0.91	54.02	71.24	54.38	0.00	0.00	8.23
94-07-001	GROWMARK, INC - FORT DODGE TERMINAL	0.00	0.00	0.00	0.00	44.34	0.00	0.00	0.00	0.95
94-07-004	LINDE, INC	3.45	3.45	0.00	0.00	0.16	1.02	0.00	0.00	0.76
95-01-001	WINNEBAGO INDUSTRIES, INC - FOREST CITY	1.34	1.37	0.42	2.42	24.82	2.24	0.00	0.00	11.96
95-01-012	CDI, LLC. - FOREST CITY	0.28	0.28	0.00	0.00	40.00	0.00	0.00	0.00	6.65
95-02-012	CENTRAL DISPOSAL SYSTEMS, INC	10.92	44.24	2.37	43.29	17.63	91.28	0.00	0.00	16.56
97-01-001	CARGILL, INC - SIOUX CITY	19.96	25.89	0.37	31.74	626.05	52.10	0.00	0.00	398.18
97-01-030	CF INDUSTRIES NITROGEN, LLC - PORT NEAL COMPLEX	92.57	92.96	3.48	332.77	66.74	498.04	0.00	290.96	44.51
97-01-118	MAGELLAN PIPELINE CO, LLC - SIOUX CITY	0.35	0.35	0.00	20.21	38.48	12.04	0.00	0.00	2.04
97-01-193	Smithfield Packaged Meats Corp	0.58	1.22	0.05	7.67	10.82	52.83	0.00	0.25	0.14
97-04-005	AG PROCESSING, INC - SERGEANT BLUFF	14.48	29.41	0.45	62.25	408.87	60.81	0.00	0.00	257.61
97-04-010	MIDAMERICAN ENERGY CO - GEORGE NEAL NORTH	49.08	77.15	1,564.16	984.36	15.68	1,856.11	0.01	0.39	6.14
97-04-011	MIDAMERICAN ENERGY CO - GEORGE NEAL SOUTH	79.72	98.17	1,635.53	744.47	15.94	697.80	0.00	0.54	5.81
98-02-004	MANLY TERMINAL, LLC	0.11	0.25	0.00	0.00	33.77	0.00	0.00	0.00	6.47
98-07-004	POET BIOREFINING - HANLONTOWN	57.65	62.77	0.50	56.10	78.22	62.14	0.00	0.00	6.33
99-01-001	AG PROCESSING, INC - EAGLE GROVE	15.17	48.05	0.33	19.03	440.65	45.61	0.00	0.00	280.98
99-05-003	CORN, LP	32.26	33.14	0.52	30.25	77.92	82.65	0.00	0.00	6.89

Appendix B - Business Types

- **Electricity Generation** - Includes facilities that provide electricity or steam to the public. This business type includes facilities contained in the major SIC groups of "4911" and "4931."

- **Food and Kindred Products** - Includes soybean and wet/dry corn mills, wet mill ethanol plants, meat packing plants, and facilities producing canned goods. This business type includes facilities contained in major SIC groups beginning with "20."

- **Natural Gas Transmission and Petroleum Product Pipelines/Fuel Storage** - Includes natural gas compressor stations, oil and natural gas pipelines, petroleum product storage facilities, and other fuel storage facilities. This business type includes facilities contained in major SIC groups beginning with "46," "49," and "51."

- **Stone, Clay, Glass, and Concrete Products** - Includes facilities processing or manufacturing portland cement, gypsum, bricks, slag, and glass products. This business type includes facilities contained in major SIC groups beginning with "32."

- **Dry Mill Ethanol Plants** - Includes facilities manufacturing ethanol from a dry mill process only. This business type includes facilities contained in the major SIC group "2869."

- **Education and Research** - Includes processes specific to education and research projects. This business type includes facilities contained in the major SIC groups of "8221," "8733," and "8734."

- **Iron and Steel Foundries/Mills** - Includes facilities manufacturing rail car wheels, water/wastewater pipes, rebar, and miscellaneous castings. This business type includes facilities contained in the major SIC groups of "3312," "3321," "3325," and "3365."

- **Chemical Manufacturing** - Includes facilities processing or manufacturing industrial organic chemicals, nitrogenous fertilizers, herbicides, cyclodextrin encapsulants, or medicinal chemicals. This business type includes facilities contained in major SIC groups beginning with "28."

- **Metal Products Manufacturing** - Includes facilities manufacturing cast aluminum ingots, aluminum coils, aluminum cans, and metal furniture. This business type includes facilities contained in the major SIC groups of "2522," "3339," "3351," "3353," and "3411."

- **Plastic Products Manufacturing** - Includes facilities manufacturing fiberglass and resin products, foam products, laminates, plastic bags, and bathtubs, showers, and whirlpools. This business type includes facilities contained in the major SIC group "2821" as well as facilities contained in the major SIC groups beginning with "26" and "30."

- **Wood and Paper Products Manufacturing** - Includes facilities manufacturing office furniture, cabinets, windows and doors, and paperboard. This business type includes facilities contained in the major SIC groups of "2521" and "2631" as well as facilities contained in the major SIC group beginning with "24."

- **Construction and Farm Equipment/Machinery Manufacturing** - Includes facilities manufacturing end loaders, skidders, graders, backhoes, diesel engines, and agricultural equipment and machinery. This business type includes facilities contained in the major SIC groups of "3519," "3253," and "3531."

- **Public Safety, Health, and Security** - Includes penitentiaries, hospitals, and ammunition plants. This business type includes facilities contained in major SIC groups beginning with "80," "92," and "97."

- **Rubber Products Manufacturing** - Includes facilities manufacturing tires, inner tubes, and automotive rubber parts. This business type includes facilities contained in the major SIC groups of "3011," "3061," and "3069."

- **Paint, Ink, and Adhesive Manufacturing and Application** - Includes facilities manufacturing ink, paint, and adhesives as well as facilities applying these materials. This business type includes facilities contained in the major SIC groups of "2672," "2851," and "2893" as well as facilities contained in the major SIC groups beginning with "27" and "34."

- **Landfills and Water Treatment** - Includes municipal landfills and water treatment facilities. This business type includes facilities contained in the major SIC groups of "4941," "4952," "4953," and "4959."

- **Motor Vehicles/Parts Manufacturing and Repair Shops** - Includes facilities manufacturing truck bodies, motor homes and parts, trailers, and rims and wheels for agricultural machinery. This business type includes facilities contained in major SIC groups beginning with "37," "50," and "75."

- **Fabricated Metal and Structural Metal Products Manufacturing** - Includes facilities manufacturing steel buildings, joists, doors, frames, pallet racks, dumpsters, bins, valves, and pipefittings. This business type includes facilities contained in major SIC groups beginning with "25," "34," and "35."

- **Miscellaneous** - Includes insurance companies, data storage facilities, and facilities manufacturing batteries, buttons, communication equipment, distilled spirits, and blades for wind turbines. This business description includes facilities contained in the major SIC groups of "3511," "4741," "5093," "6311," "4789," "5182," and "7374" as well as facilities contained in the major SIC groups beginning with "36" and "39."

For more information regarding the Standard Industrial Classification (SIC), SIC structure, and SIC descriptions please visit https://www.osha.gov/pls/imis/sicsearch.html.

Appendix C - Required Air Emissions Reporting Requirements & Emissions Inventory System Data Elements

AERR[1] Data Element	Corresponding EIS Data Element	Included in DNR's Submittal?
Emissions Year	Emissions Year	Yes
State and County FIPS Code or Tribal Code	State and County FIPS Code	Yes
Facility Site Identifier	Facility Site Identifier	Yes
Unit Identifier	Unit Identifier	Yes
Emission Process Identifier	Emissions Process Identifier	Yes
Release Point Identifier	Release Point Identifier	Yes
Facility Site Name	Facility Site Name	Yes
Physical Address (Location Address, Locality Name, State and Postal Code	Location Address Text, Locality Name, Location Address State Code, Location Address Postal Code	Yes
Latitude and Longitude at facility level	Latitude Measure and Longitude Measure	Yes
Source Classification Code	Source Classification Code	Yes
Aircraft Engine Type (where applicable)	Aircraft Engine Type Code	No
Facility Site Status and Year	Facility Site Status Code and Facility Site Status Code Year	Yes
Release Point Stack Height and Unit of Measure	Release Point Stack Height Measure and Release Point Stack Height Unit of Measure Code	Yes
Release Point Stack Diameter and Unit of Measure	Release Point Stack Diameter Measure and Release Point Stack Diameter Unit of Measure Code	Yes
Release Point Exit Gas Temperature and Unit of Measure	Release Point Exit Gas Temperature Measure	Yes
Release Point Exit Gas Velocity or Release Point Exit Gas Flow Rate and Unit of Measure	Release Point Exit Gas Flow Rate Measure and Release Point Exit Gas Flow Rate Unit of Measure Code	Yes
Release Point Status and Year	Release Point Status Code and Release Point Status Code Year	Yes
NAICS at facility level	NAICS Code	Yes
Unit Design Capacity and Unit of Measure (for some unit types)	Unit Design Capacity and Unit Design Capacity Unit of Measure Code	Yes
Unit Type	Unit Type Code	Yes
Unit Status and Year	Unit Status Code and Unit Status Code Year	Yes
Release Point Apportionment Percent	Average Percent Emissions	Yes
Release Point Type	Release Point Type Code	Yes
Control Measure and Control Pollutant (where applicable)	Control Measure Code and Pollutant Code	Yes
Percent Control Approach Capture Efficiency (where applicable)	Percent Control Approach Capture Efficiency	No
Percent Control Measures Reduction Efficiency (where applicable)	Percent Control Measure Reduction Efficiency	Yes
Percent Control Approach Effectiveness (where applicable)	Percent Control Approach Effectiveness	No
Emission Factor	Emission Factor, Emission Factor Numerator Unit of Measure Code and Emission Factor Denominator Unit of Measure Code	Yes

AERR[1] Data Element	Corresponding EIS Data Element	Included in DNR's Submittal?
Throughput (Value, Material, Unit of Measure, and Type)	Calculation Parameter Value, Calculation Material Code, Calculation Parameter Unit of Measure and Calculation Parameter Type Code	Yes
Pollutant Code	Pollutant Code	Yes
Annual Emissions and Unit of Measure	Total Emissions and Emissions Unit of Measure Code	Yes
Reporting Period Type (Annual)	Reporting Period Type Code	Yes
Emission Operating Type (Routine)	Emission Operating Type Code	Yes
Emission Calculation Method	Emission Calculation Method Code	Yes

[1]Where Required By 40 CFR 51.30